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OF ABSTRACT

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The Application of Audiometric Data Base Analysis to Selected Air Force Bases

by

Jonathan W. Thomas

A technical report submitted to the faculty of the University of North Carolina at Chapel Hill in partial fulfillment of the requirements for the degree of Master of Science in Environmental Engineering in the Department of Environmental Sciences and Engineering, School of Public Health.

Chapel Hill, 1995

Approved by:

Mike Flynn, PHD

Larry Royster, PHD

Jim Watson, PHD

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Abstract

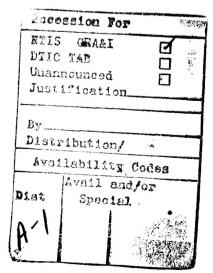
This paper focuses on using Audiometric Data Base Analysis (ADBA) to evaluate the effectiveness of the hearing conservation program (HCP) at eight Air Force Bases. The primary goal is to evaluate the effectiveness of the HCP for all eight bases combined. The secondary goal was determining which groups of personnel are experiencing the most variability in their hearing threshold levels (HTLs).

The ADBA results revealed that the total group exhibited a program that was between marginal and unacceptable. Breaking the total group's audiometric data into smaller groups did not reveal a significantly different variability by group with the exception of gender. Females had significantly less variability in their mean HTLs when compared to males.

The standard deviation of differences of HTLs measure did not give similar results to the other measures. The use of the standard deviation of difference of HTLs measure is not recommended for use under the present guidelines.

An overall distribution of TWAs (time weighted averages) for the total group showed a fairly normal distribution with the 50th percentile at 85 dBA (A frequency-weighted sound pressure level). The 10th percentile is 77 dBA and 90th percentile is 94 dBA for the total

population.



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Introduction

Currently, noise exposure and audiometric data are collected and maintained for all personnel in the United States Air Force (USAF) HCP. The audiometric data are maintained in a central database. The noise exposure data are kept in separate databases at each Air Force Base (AFB). Individual's noise exposure and audiometric data are maintained in their medical records and evaluated but no group analysis is routinely done. The goal of this study was to merge the sound survey data from each database with the audiometric data and do an overall quality assurance review of the HCPs included in the study.

The data for the study came from several sources. The audiometric data (70,777 records on 14,166 individuals) came from the Hearing Conservation Data Registry (HCDR) in the Occupational and Environmental Health Directorate, Armstrong Laboratory, Brooks AFB, TX. Noise exposure data came from databases at each base. The medium size bases use a database called BEEKEEPER to store noise exposure data. The large bases use a database called PHOENIX to store the noise exposure data. In addition, the required personnel data were obtained from the Military Personnel Center, Randolph AFB TX.

The primary method for evaluating the HCPs is the ADBA protocol defined in the Draft American National Standard Institute (ANSI) Standard S12.13-1991 - Evaluating the Effectiveness of Hearing Conservation Programs. ADBA evaluates variability in HTLs using three different methods.⁴ The results can be used to classify the overall HCP as acceptable, marginal or unacceptable.

Each ADBA procedure is discussed and used to evaluate the USAF data studied. First, an overall quality evaluation is carried out for the total group. Then the individual data groups are evaluated. Finally, the findings for the total and subset data bases are presented and a comparison of the findings across data bases are discussed.

Since the standard is a draft publication for use and comment, this is an excellent time to evaluate the USAF programs with the different methods and see how they compare and provide comments to the ANSI working group.

Background

Prevention of occupational hearing loss is the primary goal of a HCP. However to prevent hearing loss, HCP personnel need to be able to detect developing Noise Induced Permanent Threshold Shifts (NIPTS) before significant hearing loss occurs. Audiometric Data Base Analysis (ADBA) offers the potential for detecting problems in the HCP (such as noise induced hearing loss) quickly before significant hearing loss can occur.

ADBA has several other advantages. It provides data that can be used to develop simple charts and graphs that may be used in education sessions for presenting to supervisors and employees the effectiveness of the HCP in their department, providing motivation for the HCP. ADBA has also been used by HCP personnel to compare the effectiveness of different hearing protective devices and to demonstrate to management the effectiveness of, or lack of, dollars spent on the HCP. 11

The only valid objective indication of whether a HCP is succeeding in preventing occupational hearing loss is audiometric results for the noise-exposed employees. Review of selected individual audiometric records provides information on the hearing changes for

the individuals. However, this review process does not give an overall picture of how well a group of workers are being protected. 11

The ADBA procedures are based on various ways of measuring year-to-year audiometric variability. A properly protected noise-exposed population should not have any more variability in their hearing threshold levels than for a population not exposed to significant occupational noise exposure assuming all other sources of variability are controlled.⁴ For a more detailed discussion of ADBA please refer to previous publications in the literature. 5-10,12

The sources of audiometric variability include normal fluctuations in the responsiveness of individuals, inconsistencies in equipment calibration, testing methods used and true threshold changes due to temporary or permanent hearing loss. 11 With personnel moving between bases on a regular schedule every three to five years, these variables may be hard to control and assess. Therefore, the movement of personnel may be a major source of variability in HTLs.

USAF HCP

The USAF HCP is administered by Aerospace Medicine. A three pronged approach is used. Bioenvironmental Engineering conducts sound level meter and noise dosimetry surveys and evaluates noise controls. Military Public Health conducts supervisor training and issues hearing protective devices. Physical Exams provide audiometric exams. Each group is part of Aerospace Medicine which coordinates these efforts through the occupational medicine working group. 1,2

The USAF does not follow the requirements of the Occupational Safety and Health Administration (OSHA) noise standard. It uses different criteria. To describe the USAF HCP criteria, a few definitions are needed. First, the criterion level is the 8 hour equivalent that results in a 100% noise dose measurement. Next, exchange rate defines the increase or decrease in sound level for a corresponding halving or doubling of exposure time. The exchange rate is also called the trading ratio or doubling rate. Finally, Leq, T is the equivalent continuous A frequency-weighted sound level over a time T. If T is 8 hours, Leq, 8 becomes the time-weighted average, or TWA.

The USAF program presently uses a criterion level of 85 dBA and a 3 dB (decibel) exchange rate. Individuals are allowed noise exposures unprotected less than 85 dBA. USAF members are placed on the HCP if the TWA equals or exceeds 85 dBA and hearing protection is required. Previously, the USAF used a criterion level of 84 dBA and a 4 dB exchange rate. The use of the current criterion level and exchange rate started in December 1993.

Characteristics of the Studied Air Force Bases

Eight AFBs were selected for this study, two large bases and six medium size bases. The two large bases were Kelly AFB (San Antonio, TX) and Robins AFB (Warner-Robins, GA). Both bases are primarily air logistic centers and perform depo level maintenance on aircraft. The six medium size bases were Langley AFB (Hampton VA), Shaw AFB (Sumter, SC), Seymour-Johnson AFB (Goldsboro, NC), Pope AFB (Fayetteville, NC), Charleston AFB (Charleston, SC) and Randolph AFB (Universal City, TX). Langley, Shaw, Seymour-Johnson and Pope AFBs are primarily fighter bases. Charleston AFB is primarily a transport base. Randolph AFB is primarily a pilot training base.

Group Descriptive Statistics

To assess the HCP programs, only personnel with at least four sequential audiograms were used. This limited the total group size considerably (14,166 to 6655 individuals). The last four sequential tests are renumbered so the most recent test is test 4 and the next most recent test is test 3, etc.

The audiometric data are divided into several different groups for comparison purposes. First, a total group is formulated that includes personnel from all eight AFBs. Next, the total group is split into military and civilian groups and into male and female groups. Additionally, the total group is split into groups based on ethnic classifications. Last, the total group is broken down further into individual AFB data bases. Appendix C lists group descriptive statistics for each group. Statistics listed include the number of USAF personnel included in each group and the average age and average service length for each test.

ADBA Criteria

In applying the ADBA procedures defined by the Draft ANSI S12.13-1991 standard, the data should "ideally" (but not an absolute requirement) meet certain requirements. The audiograms should have been given approximately yearly with the maximum interval between tests less than eighteen months. The population data base should be restricted to the same subjects over the period of analysis. A minimum number of audiograms is suggested for each subject of the population and the population should be representative of all employees, with a minimum of 30 people per analysis group. The audiometric data should be collected during the work shift, so temporary threshold shifts as well as developing permanent threshold shifts can be detected by the ADBA procedures. Finally

the data should be checked for possible contamination (includes re-test results, obviously major shifts in HTLs across test frequencies, etc.) before analysis.⁴

The ANSI standard presents three measures of variability in hearing threshold levels for use when comparing sequential audiograms. The three measures are:

- 1. Percent Worse Sequential (%W_S): percent of population showing a 15 dB shift toward worse hearing in either ear at any test frequency (0.5 to 6 kilohertz, kHz) in sequential test comparisons.
- Percent Better or Worse Sequential (%BW_S): percent of population showing a
 dB shift toward better or worse hearing in either ear at any test frequency (0.5 to 6
 kHz) in sequential test comparisons.
- 3. Standard Deviation of Differences in Hearing Threshold Levels (S_X) : is calculated using the differences averaged across ears, X, at the audiometric test frequencies of 0.5 to 6 kHz between sequential hearing thresholds of N individuals. The standard deviation, S_X , is calculated as follows:

$$S_{x} = \sqrt{\frac{\sum X^{2} - \frac{\left(\sum X\right)^{2}}{N}}{N-1}},$$

where X is the difference between sequentially averaged hearing thresholds, and N is the number of individuals.

Criterion ranges for evaluating the results from applying the three ADBA measures are given in appendix A, tables 1 and 2. The criteria utilized depends on which set of

sequential audiograms are being compared, the true first four (1-2, 2-3 and 3-4) for a population or later audiograms (4-5, 5-6, 6-7, 7-8, etc.). Table 1 is for the $%W_S$ and $%BW_S$ measures. Table 2 is for the S_X measure at individual test frequencies.⁴

Results

Appendix A, table 3 shows the results of applying the ADBA procedures to the last four tests for the total group and sub-groups using the $%W_S$ and $%BW_S$ measures. Also indicated in the table is the 95% confidence intervals for each measure calculated. Appendix A, table 4 presents the results for the S_X measure for the total group. Appendix A, table 5 shows the mean HTLs vs. mean age and frequency for each group.

The data for appendix A, tables 3, 4 and 5 are taken from the ADBA outputs. The ADBA outputs were generated using the PC-Hearval 13 Audiometric Data Base Analysis Program for use with PC-compatible computers. Appendix D presents the first page output of the CMPALL.EXE program that generates baseline and sequential test comparison results. The different overall comparison criteria are shown. The data discussed herein (9 W_S and 9 BW_S) corresponds to category 8, which is shown blocked in.

Appendix E presents, pages E-1 to E-3, the shift results for all eight AFBs for the test comparisons 1-2, 2-3 and 3-4. As an example, on page E-1, the shift data (in 5 dB increments for the left, right and combined ear HTLs) is shown. In addition, the mean and standard deviation of the shift data is shown. Finally, at the bottom of the page is the summed shift data by category. As noted earlier, category 8 presents the %W_S and %BW_S data presented herein.

Total Group and Individual AFB Groups

Appendix B, figure 1 presents the $\%W_S$ data for the total group and each individual AFB. Looking at figure 1, the HCP ratings are generally in the marginal range. The total group's $\%W_S$ measure varied from 23 to 27%. Most of the data are overlapping and it is hard to distinguish between the individual groups. The exception is the Seymour-Johnson AFB data. The data from Seymour-Johnson exhibited the smallest group size (n=80) for comparison and the highest variability in HTLs ($\%W_S$ from 20 to 45%).

Appendix B, figure 2 presents the %BW_S data for total group and each individual AFB. Most of these data points are in the lower unacceptable to marginal range. The total group has a %BW_S measure ranging from 40 to 43%. Once again the Seymour-Johnson AFB data are generally higher than the rest of the data (41 to 54%). Charleston and Shaw AFBs also have higher %BW_S measures than the total group (45 to 48 % and 45 to 50%). The rest of the bases have similar %BW_S measures to the total group. Based on the %W_S and %BW_S measures, the total group and most of the individual AFB group findings are in the upper marginal to lower unacceptable range. Appendix E contains the shift results from the total group of all eight AFBs. Appendix F presents the shift results for each individual AFB.

Sx Measure

Appendix A, table 4 presents the results for the S_X measure for the total group. Using the S_X measure, shown in appendix B, figure 3, the total group has an acceptable HCP (all frequencies have lower standard deviations than listed in appendix A, table 2). The individual AFB groups have similar S_X measures as the total group. The failure of the S_X measure to identify unacceptable HCPs has been noted by the ANSI S12.13 working group, and the standard deviation of differences ADBA measure was therefore dropped. Therefore, the S_X findings will not be discussed further.

Civilian vs. Military Groups

1.

Appendix B, figures 4 and 5 are plots of the %W_S and %BW_S measures for the total group split into civilian and military groups. These groups have large populations, so their 95% CIs are fairly small. Both groups present similar variability results with the %W_S in the 22 to 28% range for civilians and 23 to 25% range for military. The %BW_S findings are also similar, with ranges of 41 to 42% and 37 to 44% for the civilian and military groups. Since the civilian group is much less mobile than the military group this would suggest that movement between bases may not be a major source of the variability observed in the USAF HCP. Appendix G presents the shift results for the military and civilian groups.

Gender Groups

Appendix B, figures 6 and 7 are plots of the $\%W_S$ and $\%BW_S$ measures for the total group separated by gender. The female group is considerably smaller than the male group (365 vs. 6207 individuals). In general, the female group has less variability in its mean HTLs ($\%W_S$ of 18 to 19 % vs. 24 to 27% and $\%BW_S$ of 34 to 35% vs. 40 to 45%). The 95% CIs for both groups do not overlap. The female group is primarily in the marginal range and the male group overlaps both the marginal and unacceptable range. The shift results for the male and female groups are located in appendix H.

Ethnic Groups

Appendix B, figures 8 and 9 separates the total group into different ethnic groups. Only three ethnic groups had large enough numbers to be considered, blacks, hispanics and whites. All the groups exhibit very similar variability with the $\%W_S$ and $\%BW_S$ measures matching the total group's measures. The $\%W_S$ measure varied from 24 to 26 % for whites, 21 to 24% for blacks and 20 to 27% for hispanics. The $\%BW_S$ measure varied

from 39 to 45% for whites, 39 to 41% for blacks and 40 to 41% for hispanics. Appendix I presents the shift results for each ethnic group.

Mean HTLs vs. Audiometric Test Frequency

Another way of looking at the data analyzed is presented in appendix B, figures 10-25. In figure 10, the mean HTLs are plotted vs. test frequency for the total group for the population's last four tests. This type of plot presents one view of the data. It provides information with respect to the population's hearing characteristics over time by audiometric test frequency. Similarly in figures 11-18, the mean HTLs are plotted vs. test frequency for the population of each individual AFB. In Fig 19-25, the mean HTLs are plotted vs. test frequency for remaining groups (civilian vs. military, gender and ethnic).

Mean HTLs vs. the Population's Mean Age

In figures 26-41, the same data base is plotted as mean HTLs vs. mean age by audiometric test frequency for the total group and each sub-group. This type of data configuration provides useful information including: the mean time between tests, the average age of the population at each test and possible calibration errors (significant shifting in HTLs between tests at one or more test frequencies).

Noise Exposure Distributions

The audiometric data obtained from the HCDR exhibited a noise exposure value field. A closer inspection of the values for this noise exposure data found it to be unreliable. Some bases had no information entered and others had the same value for all personnel. Therefore, instead of trying to use this questionable data, noise exposure data were directly collected from databases at each AFB studied. Appendix B, figure 42 presents a cumulative distribution plot of the TWA data for the total group representing all eight AFBs. TWAs were determined by work area. Each work area has at least one eight-hour

TWA and some have as many as sixty-five. Over seven hundred work areas are included in this overall distribution. The median of the total group's cumulative TWA distribution was approximately 85 dBA. The 10th percentile is 77 dBA and 90th percentile is 94 dBA. It is noted that this distribution is based primarily on the estimated TWAs that were determined using the previous 4 dB exchange rate.

Similar plots of the distribution of TWAs for each base are in appendix B, figures 43-50. Charleston, Kelly, Robins and Seymour-Johnson AFBs have medians similar to the total group in the 84-85 dBA range. Pope AFB's median is slightly lower at 82 dBA. The remaining AFBs, Shaw, Langley and Randolph, have higher medians of 87, 88 and 90 dBA respectively.

Conclusions and Recommendations

This paper focused on using ADBA to evaluate the HCPs at eight Air Force Bases. The ADBA results for the total data base studied classify the USAF HCP as unacceptable to marginal. Breaking the overall data into individual AFB groups did not reveal a group with significantly different variability from the total group. The exception being that females within data bases exhibit significantly less variability in their HTLs as compared to males.

An overall distribution of TWAs for the total group shows a fairly normal distribution with the 50th percentile at 85 dBA. The 10th percentile is 77 dBA and 90th percentile is 94 dBA for the total population.

The standard deviation of differences ANSI S12.13 measure failed to provide similar results to those found using the $\%W_S$ and $\%BW_S$ measures. Therefore the use of the

standard deviation of difference of HTLs measure is not recommended in attempting to evaluate the effectiveness of HCPs in general.

Since ADBA findings yielded a program classification of unacceptable to marginal, it is recommended that the source or sources of the identified high variability in USAF audiometric data be investigated further.

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List of Abbreviations

ADBA - Audiometric Data Base Analysis HCP - Hearing Conservation Program

HTL - Hearing Threshold Level

dBA - A Frequency-Weighted Sound Pressure Level

USAF - United States Air Force

AFB - Air Force Base

HCDR - Hearing Conservation Data RegistryANSI - American National Standards Institute

OSHA - Occupational Safety and Health Administration

dB - Decibel

Leg, T - Equivalent Continuous A-Weighted Sound Level Over a Time Period T

NIPTS - Noise Induced Permanent Threshold Shifts

%W_S - Percent Worse Sequential

%BWs - Percent Better or Worse Sequential

S_X - Standard Deviation of Differences in Hearing Threshold Levels

N - Number of IndividualsCI - Confidence Interval

kHz - Kilohertz

X - Mean Difference Between Sequentially Averaged Hearing Thresholds at

Selected Audiometric Test Frequencies

TWA - Time Weighted Average, dBA

Appendix A: Tables

Page	<u>Table</u>
A-1	1. Recommended Criterion Ranges for Rating HCP Effectiveness Using
	%W _s and %BW _s
A-2	2. Recommended Criterion Ranges for Rating HCP Effectiveness Using
	the Standard Deviation of Differences in HTLs
A-3	3. %W _S and %BW _S and 95% Confidence Intervals for Each Group
A-4	4. Standard Deviation of Differences Findings for the Overall Group
A-5	5. Mean HTLs (dB) vs Mean Age and Audiometric Test Frequency for
	Each Group Listed

TABLE 1. Recommended Criterion Ranges for Rating HCP Effectiveness Using %Ws and %BWs

HCP Rating	Sequential comparisons	Sequential comparisons			
	of first four tests	of later tests			
	(1-2,2-3, and 3-4)	(5-6, 6-	7, 7-8, etc)		
	%Ws	%Ws	%BWs		
Acceptable	<20	<17	<26		
Marginal	20 to 30	17 to 27	26 to 40		
Unacceptable	>30	>27	>40		

%Ws - Percent Worse sequential

%BW - Percent Better or Worse sequential

TABLE 2. Recommended Criterion Ranges for Rating HCP Effectiveness Using the Standard Deviation of Differences in HTLs

Test	HCP Rating	Sequential comparisons	Sequential comparisons		
Frequency		of first four tests	of later tests		
kHz		(1-2,2-3, and 3-4)	(5-6, 6-7, 7-8, etc)		
0.5	Acceptable	<6	<5		
1	Marginal	6 to 7	5 to 7		
or 2	Unacceptable	>7	>7		
3	Acceptable	<7	<6		
	Marginal	7 to 10	6 to 8		
	Unacceptable	>10	>8		
		~;·			
4	Acceptable	<7	<7		
	Marginal	7 to 10	7 to 10		
·	Unacceptable	>10	>10		
6	Acceptable	<9	<8		
	Marginal	9 to 12	8 to 11.5		
	Unacceptable	>12	>11.5		

Table 3: %Ws and %BWs and 95% Confidence Intervals for Each Group

Total		4.0				+/- C1
Total		1-2	26.5	1.1	43.0	1.2
	(n=6655)	2-3	25.0	1.0	41.9	1.2
	,	3-4	23.2	1.0	40.0	1.2
		1-2	26.6	2.8	47.8	3.2
	Charleston	2-3	24.3	2.7	45.3	3.1
	(n=962)	3-4	34.5	3.0	47.9	3.2
-	(11 002)	1-2	27.3	1.6	40.3	1.7
	Kelly	2-3	25.8	1.6	40.6	1.7
	(n=3052)	3-4	20.0	1.4	39.4	1.7
-	(11-3032)	1-2	20.1	4.1	40.9	5.1
	Langley	2-3	18.4	4.0	35.9	5.0
		3-4	25.1	4.5	38.7	5.0
-	(n=359)	1-2	26.5	4.5 -, 3.2	45.8	3.6
	Dono			Se .		
Dece-	Pope	2-3	22.9	3.0	43.5	3.6
Bases	(n=743)	3-4	16.6	2.7	31.5	3.3
	D 11.5	1-2	32.2	5.4	45.8	5.8
	Randolph	2-3	23.8	4.9	41.3	5.7
	(n=286)	3-4	26.6	5.1	38.1	5.6
	- · ·	1-2	25.8	3.3	40.6	3.7
	Robins	2-3	26.7	3.3	40.6	3.7
	(n=689)	3-4	18.3	2.9	34.3	3.5
l		1-2	20.0	8.8	41.3	10.8
	Seymour-Johnson	2-3	45.0	10.9	52.5	10.9
	(n=80)	3-4	32.5	10.3	53.8	10.9
		1-2	25.2	3.9	49.9	4.5
	Shaw	2-3	24.7	3.9	45.3	4.4
	(n=481)	3-4	33.5	4.2	48.6	4.5
		1-2	27.1	1.1	43.7	1.2
	Male	2-3	25.4	1.1	42.4	1.2
Sex	(n=6207)	3-4	. 23.5	1.1	40.2	1.2
		1-2	17.8	3.9	34.0	4.9
	Female	2-3	18.9	4.0	34.5	4.9
	(n=365)	3-4	17.8	3.9	34.0	4.9
		1-2	27.9	1.6	41.3	1.8
	Civilian	2-3	26.6	1.6	41.5	1.8
	(n=2859)	3-4	21.5	1.5	41.1	1.8
Ī		1-2	25.4	1.6	43.7	1.8
	Military	2-3	23.7	1.5	41.9	1.8
	(n=3029)	3-4	23.2	1.5	37.4	1.7
		1-2	26.3	1.5	44.9	1.7
	White	2-3	24.5	1.5	42.6	1.7
	(n=3252)	3-4	24.3	1.5	39.1	1.7
		1-2	21.7	3.6	40.1	4.3
Race	Black	2-3	23.9	3.7	40.9	4.3
	(n=506)	3-4	21.1	3.6	39.1	4.3
		1-2	27.0	1.9	39.6	2.1
	Hispanic	2-3	26.4	1.9	40.7	2.1
	(n=2038)	3-4	19.7	1.7	39.6	2.1

Table 4: Standard Deviation of Differences Findings for the Overall Group

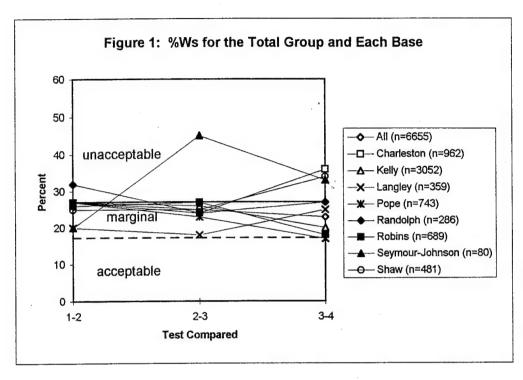
	Standard Deviation of Differences in HTLs					
Overall (n=6655) Test Frequencies, kHz						
	0.5	1.0	2.0	3.0	4.0	6.0
tests 1-2	4.4	3.5	3.5	4.4	5.1	7.2
tests 2-3	4.3	3.5	3.6	4.3	5.0	7.1
tests 3-4	4.0	3.3	3.5	4.3	4.9	7.1

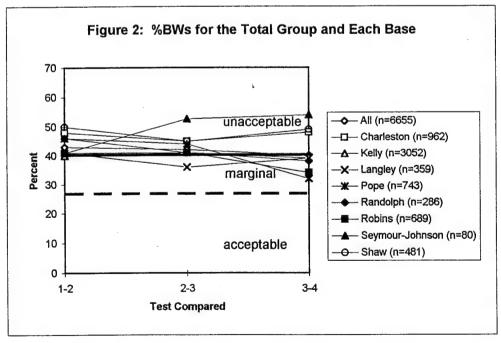
Table 5: Mean HTLs (dB) vs Mean Age and Audiometric Test Frequency for Each Group Listed

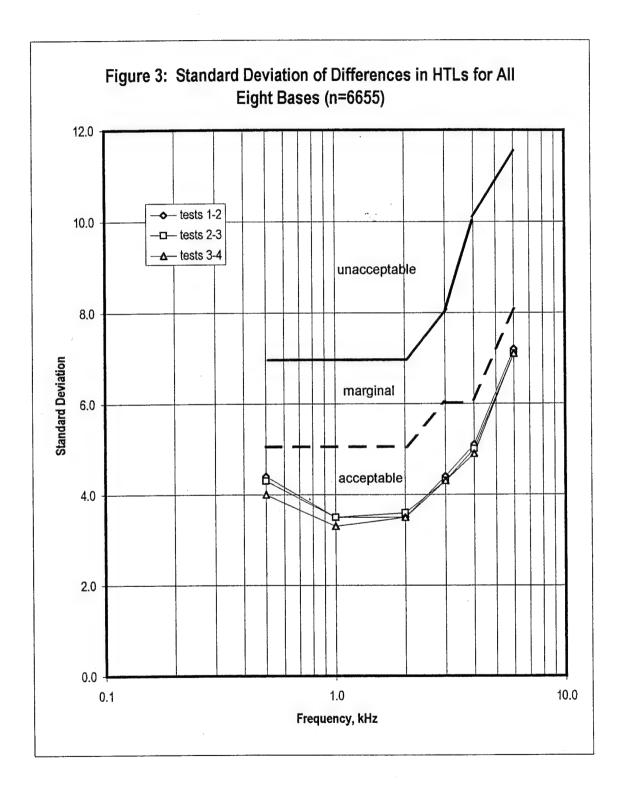
All (m-6655)			A	6.5		D		A ===	4.4	
O. S. Kritz	All (n=6655)	047			20.2	Randolph (n=286)	20.4			26.7
1 HHz										
2 kHz										1
SikHz										
Helt										
GiHz	3 kHz	13.05	13.91	14.65		3 kHz		10.06		
Charleston (n=962)	4 kHz	16.78		18.92	19.04			13.19		16.02
Charleston (n=962)	6 kHz	21.04	21.72	21.96	22.22	6 kHz	16.08	18.05	18.85	20.12
Frequency 31 32.1 33.5 34.6 Frequency 29.5 31 32.4 33.7			Age	(v)		Robins (n=689)		Age	(y)	
O. S. Hrlz		31			346		29.5			33.7
1 HHz										
2 kHz										
3 kHz										
A kHz						1				
Relity (n=3052)										
Relly (n=3052)										
Frequency	6 kHz	18.87			20.23		14.35			16.61
1.5 kHz	Kelly (n=3052)		Age	(y)		Shaw (n=481)		Age	(y)	
0.5 kHz	Frequency	38.9	40.2	41.5	42.6	Frequency	35.6	36.5	37.4	38.3
1 kHz		10.29	10.85	11.32	10.45	0.5 kHz	6.56	6.20	6.15	6.46
2 kHz		i .								
3 kHz										
A kHz	1									
Big Color Color		1								
Langley (n=359) Frequency 28.9 30.4 31.7 32.9 Frequency 38.1 39.2 40.5 41.5										
Frequency		23.02			27.17		21.20			21.00
0.5 kHz		200			22.0		20.1			41.5
1 kHz										
2 kHz	Market Control of the									
3 kHz										
A kHz	2 kHz									
6 kHz 14.97 14.58 13.79 13.52 6 kHz 17.62 16.66 21.81 22.88 Pope (n=743) Age (y) Hispanic (n=2038) Age (y) Age (y) </td <td>3 kHz</td> <td>8.41</td> <td></td> <td>7.91</td> <td></td> <td>3 kHz</td> <td></td> <td></td> <td></td> <td></td>	3 kHz	8.41		7.91		3 kHz				
Pope (n=743)	4 kHz	11.41	11.37	11.29	11.83	4 kHz	13.22	13.09		
Pope (n=743)	6 kHz	14.97	14.58	13.79	13.52	6 kHz	17.62	16.66	21.81	22.88
Frequency 29.4 30.6 31.8 32.9 Frequency 39.3 40.6 41.8 43.0	The second secon		Age	(y)		Hispanic (n=2038)		Age	(y)	
0.5 kHz 6.35 6.09 4.90 4.75 0.5 kHz 10.90 11.43 11.09 11.08 1 kHz 4.47 4.39 3.93 3.93 1 kHz 9.33 9.62 10.29 9.18 2 kHz 4.34 4.38 4.77 4.70 2 kHz 10.99 11.34 11.96 11.29 11.43 3 kHz 7.55 7.91 8.50 8.70 3 kHz 19.67 20.91 21.54 21.19 4 kHz 9.28 9.60 10.79 11.14 4 kHz 24.31 25.78 27.07 26.71 6 kHz 15.56 15.70 15.21 14.88 6 kHz 26.51 27.67 28.58 27.66 White (n=3252) Age (y) Black (n=506) Nage (y) Age (y) Black (n=506) Age (y) 1 kHz 5.37 5.51 5.62 5.39 1 kHz 6.23 6.37 6.40 6.03 2 kHz 5.70 5.93		29.4			32.9	Frequency	39.3	40.6	41.8	43.0
1 kHz 4.47 4.39 3.93 3.93 1 kHz 9.33 9.62 10.29 9.18 2 kHz 4.34 4.38 4.77 4.70 2 kHz 10.99 11.34 11.96 11.43 3 kHz 7.55 7.91 8.50 8.70 3 kHz 19.67 20.91 21.54 21.19 4 kHz 9.28 9.60 10.79 11.14 4 kHz 24.31 25.78 27.07 26.71 6kHz 25.78 27.07 26.71 6kHz 15.56 15.70 15.21 14.88 6kHz 26.51 27.67 28.58 27.66 White (n=3252) Frequency 31.8 33.1 34.3 35.5 Frequency 33.4 34.8 36.3 37.4 0.5 kHz 7.24 7.33 7.19 7.04 0.5 kHz 7.40 7.36 7.45 6.79 1 kHz 5.37 5.51 5.62 5.39 1 kHz 6.23 6.37 <		6.35	6.09	4.90	4.75		10.90	11.43	11.99	11.08
2 KHz		4.47	4.39	3.93	3.93	1 kHz	9.33	9.62	10.29	9.18
3 kHz 7.55 7.91 8.50 8.70 3 kHz 19.67 20.91 21.54 21.19 4 kHz 9.28 9.60 10.79 11.14 4 kHz 24.31 25.78 27.07 26.71 6 kHz 15.70 15.21 14.88 6 kHz 26.51 27.67 28.58 27.66 White (n=3252) Age (y) Black (n=506) Age (y) Frequency 31.8 33.1 34.3 35.5 Frequency 33.4 34.8 36.3 37.4 0.5 kHz 7.24 7.33 7.19 7.04 0.5 kHz 7.40 7.36 7.45 6.79 1 kHz 5.37 5.51 5.62 5.39 1 kHz 6.23 6.37 6.40 6.03 3 kHz 10.21 10.92 11.75 11.86 3 kHz 8.70 9.03 9.62 9.49 4 kHz 13.68 14.55 15.58 16.01 4 kHz 10.55 </td <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>2 kHz</td> <td>10.99</td> <td>11.34</td> <td>11.96</td> <td>11.43</td>		1				2 kHz	10.99	11.34	11.96	11.43
4 kHz 9.28 9.60 10.79 11.14 4 kHz 24.31 25.78 27.07 26.71 6 kHz 15.56 15.70 15.21 14.88 6 kHz 26.51 27.67 28.58 27.66 White (n=3252) Age (y) Frequency 33.4 34.8 36.3 37.4 0.5 kHz 7.24 7.33 7.19 7.04 0.5 kHz 7.40 7.36 7.45 6.79 1 kHz 5.37 5.51 5.62 5.39 1 kHz 6.23 6.37 6.40 6.03 2 kHz 5.70 5.93 6.26 6.22 2 kHz 6.55 6.51 7.03 6.75 3 kHz 10.21 10.92 11.75 11.86 3 kHz 8.70 9.03 9.62 9.49 4 kHz 13.68 14.55 15.58 16.01 4 kHz 10.55 11.46 12.15 11.93 6 kHz 18.88 19.46 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>19.67</td><td>20.91</td><td>21.54</td><td>21.19</td></t<>							19.67	20.91	21.54	21.19
6 kHz 15.56 15.70 15.21 14.88 6 kHz 26.51 27.67 28.58 27.66 White (n=3252) Age (y) Age (y) Age (y) Age (y) Frequency 31.8 33.1 34.3 35.5 Frequency 33.4 34.8 36.3 37.4 0.5 kHz 7.24 7.33 7.19 7.04 0.5 kHz 7.40 7.36 7.45 6.79 1 kHz 5.37 5.51 5.62 5.39 1 kHz 6.23 6.37 6.40 6.03 2 kHz 5.70 5.93 6.26 6.22 2 kHz 6.55 6.51 7.03 6.75 3 kHz 10.21 10.92 11.75 11.86 3 kHz 8.70 9.03 9.62 9.49 4 kHz 13.68 14.55 15.58 16.01 4 kHz 10.55 11.46 12.15 11.93 6 kHz 13.88 19.46	1	l .					1			
White (n=3252) Age (y) Black (n=506) Age (y) Frequency 31.8 33.1 34.3 35.5 Frequency 33.4 34.8 36.3 37.4 0.5 kHz 7.24 7.33 7.19 7.04 0.5 kHz 7.40 7.36 7.45 6.79 1 kHz 5.37 5.51 5.62 5.39 1 kHz 6.23 6.37 6.40 6.03 2 kHz 5.70 5.93 6.26 6.22 2 kHz 6.55 6.51 7.03 6.75 3 kHz 10.21 10.92 11.75 11.86 3 kHz 8.70 9.03 9.62 9.49 4 kHz 13.68 14.55 15.58 16.01 4 kHz 10.55 11.46 12.15 11.93 6 kHz 18.88 19.46 19.40 20.08 6 kHz 14.96 15.22 15.60 15.65 Civilian (n=2859) Age (y) Frequency 40.0 41.3 42.5 43.7 <							1			
Frequency 31.8 33.1 34.3 35.5 Frequency 33.4 34.8 36.3 37.4 0.5 kHz 7.24 7.33 7.19 7.04 0.5 kHz 7.40 7.36 7.45 6.79 1 kHz 5.37 5.51 5.62 5.39 1 kHz 6.23 6.37 6.40 6.03 2 kHz 5.70 5.93 6.26 6.22 2 kHz 6.55 6.51 7.03 6.75 3 kHz 10.21 10.92 11.75 11.86 3 kHz 8.70 9.03 9.62 9.49 4 kHz 13.68 14.55 15.58 16.01 4 kHz 10.55 11.46 12.15 11.93 6 kHz 13.68 19.46 19.40 20.08 6 kHz 10.55 11.46 12.15 11.93 6 kHz 18.88 19.46 19.40 20.08 6 kHz 14.96 15.22 15.60 15.65 Civilian (n=2859) Age (y)<		10.00			1 1.00					
0.5 kHz 7.24 7.33 7.19 7.04 0.5 kHz 7.40 7.36 7.45 6.79 1 kHz 5.37 5.51 5.62 5.39 1 kHz 6.23 6.37 6.40 6.03 2 kHz 5.70 5.93 6.26 6.22 2 kHz 6.55 6.51 7.03 6.75 3 kHz 10.21 10.92 11.75 11.86 3 kHz 8.70 9.03 9.62 9.49 4 kHz 13.68 14.55 15.58 16.01 4 kHz 10.55 11.46 12.15 11.93 6 kHz 11.496 15.22 15.60 15.65 Civilian (n=2859) Age (y) Frequency 40.0 41.3 42.5 43.7 Frequency 29.4 30.7 32.0 33.2 0.5 kHz 10.68 11.22 11.69 10.85 0.5 kHz 6.51 6.44 6.23 6.15 1 kHz 9.09 9.44 10.10 9.02 1 kH		24.0			25.5	` .	33.4			37.4
1 kHz 5.37 5.51 5.62 5.39 1 kHz 6.23 6.37 6.40 6.03 2 kHz 5.70 5.93 6.26 6.22 2 kHz 6.55 6.51 7.03 6.75 3 kHz 10.21 10.92 11.75 11.86 3 kHz 8.70 9.03 9.62 9.49 4 kHz 13.68 14.55 15.58 16.01 4 kHz 10.55 11.46 12.15 11.93 6 kHz 18.88 19.46 19.40 20.08 6 kHz 14.96 15.22 15.60 15.65 Civilian (n=2859) Age (y) Frequency 40.0 41.3 42.5 43.7 Frequency 29.4 30.7 32.0 33.2 0.5 kHz 10.68 11.22 11.69 10.85 0.5 kHz 6.51 6.44 6.23 6.15 1 kHz 9.09 9.44 10.10 9.02 1 kHz 4.70 4.74 4.70 4.67 2 kHz 10.71 11.07 11.73 11.25 2 kHz 4.72 4.87 5.11 5.13 3 kHz 19.32 20.52 21.36 21.06 3 kHz 7.76 8.31 8.96 9.10 4 kHz 24.33 25.84 27.25 26.95 4 kHz 10.26 10.94 11.76 12.23 6 kHz 27.28 28.51 29.33 28.67 6 kHz 15.46 15.77 15.61 16.37 Male (n=6207) Age (y) Female (n=365) Frequency 34.6 35.9 37.1 38.3 Frequency 35.0 36.3 37.6 38.7 0.5 kHz 6.65 6.87 7.13 6.68 1 kHz 9.23 8.94 9.31 8.77 1 kHz 6.65 6.87 7.13 6.68 1 kHz 6.70 6.22 6.56 6.15 2 kHz 7.43 7.70 8.12 7.96 2 kHz 6.72 6.32 6.76 6.32 3 kHz 13.39 14.32 15.07 15.02 3 kHz 8.88 9.29 9.94 9.67										
2 kHz 5.70 5.93 6.26 6.22 2 kHz 6.55 6.51 7.03 6.75 3 kHz 10.21 10.92 11.75 11.86 3 kHz 8.70 9.03 9.62 9.49 4 kHz 13.68 14.55 15.58 16.01 4 kHz 10.55 11.46 12.15 11.93 6 kHz 18.88 19.46 19.40 20.08 6 kHz 14.96 15.22 15.60 15.65 Civilian (n=2859)										
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4 kHz 13.68 14.55 15.58 16.01 4 kHz 10.55 11.46 12.15 11.93 6 kHz 18.88 19.46 19.40 20.08 6 kHz 14.96 15.22 15.60 15.65 Civilian (n=2859) Age (y) Military (n=3029) Age (y) Frequency 29.4 30.7 32.0 33.2 0.5 kHz 10.68 11.22 11.69 10.85 0.5 kHz 6.51 6.44 6.23 6.15 1 kHz 9.09 9.44 10.10 9.02 1 kHz 4.70 4.74 4.70 4.67 2 kHz 10.71 11.07 11.73 11.25 2 kHz 4.72 4.87 5.11 5.13 3 kHz 19.32 20.52 21.36 21.06 3 kHz 7.76 8.31 8.96 9.10 4 kHz 24.33 25.84 27.25 26.95 4 kHz 10.26 10.94 11.76 12.23 6 kHz 27.28 28.51 29.33 28.67 6 kHz </td <td></td>										
6 kHz 18.88 19.46 19.40 20.08 6 kHz 14.96 15.22 15.60 15.65 Civilian (n=2859) Age (y) Military (n=3029) Age (y) Age (y) Frequency 40.0 41.3 42.5 43.7 Frequency 29.4 30.7 32.0 33.2 0.5 kHz 10.68 11.22 11.69 10.85 0.5 kHz 6.51 6.44 6.23 6.15 1 kHz 9.09 9.44 10.10 9.02 1 kHz 4.70 4.74 4.70 4.67 2 kHz 10.71 11.07 11.73 11.25 2 kHz 4.72 4.87 5.11 5.13 3 kHz 19.32 20.52 21.36 21.06 3 kHz 7.76 8.31 8.96 9.10 4 kHz 24.33 25.84 27.25 26.95 4 kHz 10.26 10.94 11.76 12.23 6 kHz 27.28 28.51 29.33 28.67 6 kHz							1			
Civilian (n=2859) Age (y) Military (n=3029) Age (y) Frequency 40.0 41.3 42.5 43.7 Frequency 29.4 30.7 32.0 33.2 0.5 kHz 10.68 11.22 11.69 10.85 0.5 kHz 6.51 6.44 6.23 6.15 1 kHz 9.09 9.44 10.10 9.02 1 kHz 4.70 4.74 4.70 4.67 2 kHz 10.71 11.07 11.73 11.25 2 kHz 4.72 4.87 5.11 5.13 3 kHz 19.32 20.52 21.36 21.06 3 kHz 7.76 8.31 8.96 9.10 4 kHz 24.33 25.84 27.25 26.95 4 kHz 10.26 10.94 11.76 12.23 6 kHz 27.28 28.51 29.33 28.67 6 kHz 15.46 15.77 15.61 16.37 Male (n=6207) Age (y) Female (n=365) Frequency 35.0 36.3 <										
Frequency 40.0 41.3 42.5 43.7 Frequency 29.4 30.7 32.0 33.2 0.5 kHz 10.68 11.22 11.69 10.85 0.5 kHz 6.51 6.44 6.23 6.15 1 kHz 9.09 9.44 10.10 9.02 1 kHz 4.70 4.74 4.70 4.67 2 kHz 10.71 11.07 11.73 11.25 2 kHz 4.72 4.87 5.11 5.13 3 kHz 19.32 20.52 21.36 21.06 3 kHz 7.76 8.31 8.96 9.10 4 kHz 24.33 25.84 27.25 26.95 4 kHz 10.26 10.94 11.76 12.23 6 kHz 27.28 28.51 29.33 28.67 6 kHz 15.46 15.77 15.61 16.37 Male (n=6207) Age (y) Female (n=365) Age (y) Age (y) Frequency 35.0 36.3 37.6 38.7 1 kHz	6 kHz		40.40	10 40	20.08	6 kHz	14.96			15.65
Frequency 40.0 41.3 42.5 43.7 Frequency 29.4 30.7 32.0 33.2 0.5 kHz 10.68 11.22 11.69 10.85 0.5 kHz 6.51 6.44 6.23 6.15 1 kHz 9.09 9.44 10.10 9.02 1 kHz 4.70 4.74 4.70 4.67 2 kHz 10.71 11.07 11.73 11.25 2 kHz 4.72 4.87 5.11 5.13 3 kHz 19.32 20.52 21.36 21.06 3 kHz 7.76 8.31 8.96 9.10 4 kHz 24.33 25.84 27.25 26.95 4 kHz 10.26 10.94 11.76 12.23 6 kHz 27.28 28.51 29.33 28.67 6 kHz 15.46 15.77 15.61 16.37 Male (n=6207) Age (y) Female (n=365) Age (y) Age (y) Frequency 35.0 36.3 37.6 38.7 1 kHz		18.88	19.46	13.40	20.00				(4)	
0.5 kHz 10.68 11.22 11.69 10.85 0.5 kHz 6.51 6.44 6.23 6.15 1 kHz 9.09 9.44 10.10 9.02 1 kHz 4.70 4.74 4.70 4.67 2 kHz 10.71 11.07 11.73 11.25 2 kHz 4.72 4.87 5.11 5.13 3 kHz 19.32 20.52 21.36 21.06 3 kHz 7.76 8.31 8.96 9.10 4 kHz 24.33 25.84 27.25 26.95 4 kHz 10.26 10.94 11.76 12.23 6 kHz 27.28 28.51 29.33 28.67 6 kHz 15.46 15.77 15.61 16.37 Male (n=6207) Age (y) Female (n=365) Age (y) Frequency 34.6 35.9 37.1 38.3 Frequency 35.0 36.3 37.6 38.7 1 kHz 6.65 6.87 7.13 6.68 1 kHz	Civilian (n=2859)	18.88			20.00			Age	* (y)	
1 kHz 9.09 9.44 10.10 9.02 1 kHz 4.70 4.74 4.70 4.67 2 kHz 10.71 11.07 11.73 11.25 2 kHz 4.72 4.87 5.11 5.13 3 kHz 19.32 20.52 21.36 21.06 3 kHz 7.76 8.31 8.96 9.10 4 kHz 24.33 25.84 27.25 26.95 4 kHz 10.26 10.94 11.76 12.23 6 kHz 27.28 28.51 29.33 28.67 6 kHz 15.46 15.77 15.61 16.37 Male (n=6207) Age (y) Female (n=365) Age (y) Frequency 35.0 36.3 37.6 38.7 0.5 kHz 8.26 8.45 8.55 8.19 0.5 kHz 9.23 8.94 9.31 8.77 1 kHz 6.65 6.87 7.13 6.68 1 kHz 6.70 6.22 6.56 6.15 2 kHz 7.43 7.70 8.12 7.96 2 kHz 6.72 6			Age	e (y)		Military (n=3029)	29.4			33.2
2 kHz 10.71 11.07 11.73 11.25 2 kHz 4.72 4.87 5.11 5.13 3 kHz 19.32 20.52 21.36 21.06 3 kHz 7.76 8.31 8.96 9.10 4 kHz 24.33 25.84 27.25 26.95 4 kHz 10.26 10.94 11.76 12.23 6 kHz 27.28 28.51 29.33 28.67 6 kHz 15.46 15.77 15.61 16.37 Male (n=6207) Age (y) Female (n=365) Age (y) Frequency 35.0 36.3 37.6 38.7 0.5 kHz 8.26 8.45 8.55 8.19 0.5 kHz 9.23 8.94 9.31 8.77 1 kHz 6.65 6.87 7.13 6.68 1 kHz 6.70 6.22 6.56 6.15 2 kHz 7.43 7.70 8.12 7.96 2 kHz 6.72 6.32 6.76 6.32 3 kHz 13.39 14.32 15.07 15.02 3 kHz 8.11 </td <td>Frequency</td> <td>40.0</td> <td>Age 41.3</td> <td>e (y) 42.5</td> <td>43.7</td> <td>Military (n=3029) Frequency</td> <td></td> <td>30.7</td> <td>32.0</td> <td></td>	Frequency	40.0	Age 41.3	e (y) 42.5	43.7	Military (n=3029) Frequency		30.7	32.0	
3 kHz 19.32 20.52 21.36 21.06 3 kHz 7.76 8.31 8.96 9.10 4 kHz 24.33 25.84 27.25 26.95 4 kHz 10.26 10.94 11.76 12.23 6 kHz 27.28 28.51 29.33 28.67 6 kHz 15.46 15.77 15.61 16.37 Male (n=6207) Age (y) Female (n=365) Age (y) Frequency 35.0 36.3 37.6 38.7 0.5 kHz 8.26 8.45 8.55 8.19 0.5 kHz 9.23 8.94 9.31 8.77 1 kHz 6.65 6.87 7.13 6.68 1 kHz 6.70 6.22 6.56 6.15 2 kHz 7.43 7.70 8.12 7.96 2 kHz 6.72 6.32 6.76 6.32 3 kHz 13.39 14.32 15.07 15.02 3 kHz 8.11 7.85 8.46 7.74 4 kHz 17.32 18.43 19.52 19.67 4 kHz 8.88 </td <td>Frequency 0.5 kHz</td> <td>40.0 10.68</td> <td>Age 41.3 11.22</td> <td>(y) 42.5 11.69</td> <td>43.7 10.85</td> <td>Military (n=3029) Frequency 0.5 kHz</td> <td>6.51</td> <td>30.7 6.44</td> <td>32.0 6.23</td> <td>6.15</td>	Frequency 0.5 kHz	40.0 10.68	Age 41.3 11.22	(y) 42.5 11.69	43.7 10.85	Military (n=3029) Frequency 0.5 kHz	6.51	30.7 6.44	32.0 6.23	6.15
4 kHz 24.33 25.84 27.25 26.95 4 kHz 10.26 10.94 11.76 12.23 6 kHz 27.28 28.51 29.33 28.67 6 kHz 15.46 15.77 15.61 16.37 Male (n=6207) Age (y) Female (n=365) Age (y) Frequency 35.0 36.3 37.6 38.7 0.5 kHz 8.26 8.45 8.55 8.19 0.5 kHz 9.23 8.94 9.31 8.77 1 kHz 6.65 6.87 7.13 6.68 1 kHz 6.70 6.22 6.56 6.15 2 kHz 7.43 7.70 8.12 7.96 2 kHz 6.72 6.32 6.76 6.32 3 kHz 13.39 14.32 15.07 15.02 3 kHz 8.11 7.85 8.46 7.74 4 kHz 17.32 18.43 19.52 19.67 4 kHz 8.88 9.29 9.94 9.67	Frequency 0.5 kHz 1 kHz	40.0 10.68 9.09	Age 41.3 11.22 9.44	42.5 11.69 10.10	43.7 10.85 9.02	Military (n=3029) Frequency 0.5 kHz 1 kHz	6.51 4.70	30.7 6.44 4.74	32.0 6.23 4.70	6.15 4.67
6 kHz 27.28 28.51 29.33 28.67 6 kHz 15.46 15.77 15.61 16.37 Male (n=6207) Age (y) Female (n=365) Age (y) Age (y) Age (y) Frequency 35.0 36.3 37.6 38.7 0.5 kHz 8.26 8.45 8.55 8.19 0.5 kHz 9.23 8.94 9.31 8.77 1 kHz 6.65 6.87 7.13 6.68 1 kHz 6.70 6.22 6.56 6.15 2 kHz 7.43 7.70 8.12 7.96 2 kHz 6.72 6.32 6.76 6.32 3 kHz 13.39 14.32 15.07 15.02 3 kHz 8.11 7.85 8.46 7.74 4 kHz 17.32 18.43 19.52 19.67 4 kHz 8.88 9.29 9.94 9.67	Frequency 0.5 kHz 1 kHz 2 kHz	40.0 10.68 9.09 10.71	Age 41.3 11.22 9.44 11.07	42.5 11.69 10.10 11.73	43.7 10.85 9.02 11.25	Military (n=3029) Frequency 0.5 kHz 1 kHz 2 kHz	6.51 4.70 4.72	30.7 6.44 4.74 4.87	32.0 6.23 4.70 5.11	6.15 4.67 5.13
Male (n=6207) Age (y) Female (n=365) Age (y) Frequency 34.6 35.9 37.1 38.3 Frequency 35.0 36.3 37.6 38.7 0.5 kHz 8.26 8.45 8.55 8.19 0.5 kHz 9.23 8.94 9.31 8.77 1 kHz 6.65 6.87 7.13 6.68 1 kHz 6.70 6.22 6.56 6.15 2 kHz 7.43 7.70 8.12 7.96 2 kHz 6.72 6.32 6.76 6.32 3 kHz 13.39 14.32 15.07 15.02 3 kHz 8.11 7.85 8.46 7.74 4 kHz 17.32 18.43 19.52 19.67 4 kHz 8.88 9.29 9.94 9.67	Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz	40.0 10.68 9.09 10.71 19.32	Age 41.3 11.22 9.44 11.07 20.52	42.5 11.69 10.10 11.73 21.36	43.7 10.85 9.02 11.25 21.06	Military (n=3029) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz	6.51 4.70 4.72 7.76	30.7 6.44 4.74 4.87 8.31	32.0 6.23 4.70 5.11 8.96	6.15 4.67 5.13 9.10
Frequency 34.6 35.9 37.1 38.3 Frequency 35.0 36.3 37.6 38.7 0.5 kHz 8.26 8.45 8.55 8.19 0.5 kHz 9.23 8.94 9.31 8.77 1 kHz 6.65 6.87 7.13 6.68 1 kHz 6.70 6.22 6.56 6.15 2 kHz 7.43 7.70 8.12 7.96 2 kHz 6.72 6.32 6.76 6.32 3 kHz 13.39 14.32 15.07 15.02 3 kHz 8.11 7.85 8.46 7.74 4 kHz 17.32 18.43 19.52 19.67 4 kHz 8.88 9.29 9.94 9.67	Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz	40.0 10.68 9.09 10.71 19.32 24.33	Age 41.3 11.22 9.44 11.07 20.52 25.84	42.5 11.69 10.10 11.73 21.36 27.25	43.7 10.85 9.02 11.25 21.06 26.95	Military (n=3029) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz	6.51 4.70 4.72 7.76 10.26	30.7 6.44 4.74 4.87 8.31 10.94	32.0 6.23 4.70 5.11 8.96 11.76	6.15 4.67 5.13 9.10 12.23
0.5 kHz 8.26 8.45 8.55 8.19 0.5 kHz 9.23 8.94 9.31 8.77 1 kHz 6.65 6.87 7.13 6.68 1 kHz 6.70 6.22 6.56 6.15 2 kHz 7.43 7.70 8.12 7.96 2 kHz 6.72 6.32 6.76 6.32 3 kHz 13.39 14.32 15.07 15.02 3 kHz 8.11 7.85 8.46 7.74 4 kHz 17.32 18.43 19.52 19.67 4 kHz 8.88 9.29 9.94 9.67	Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz	40.0 10.68 9.09 10.71 19.32 24.33	Age 41.3 11.22 9.44 11.07 20.52 25.84 28.51	(y) 42.5 11.69 10.10 11.73 21.36 27.25 29.33	43.7 10.85 9.02 11.25 21.06 26.95	Military (n=3029) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz	6.51 4.70 4.72 7.76 10.26	30.7 6.44 4.74 4.87 8.31 10.94 15.77	32.0 6.23 4.70 5.11 8.96 11.76 15.61	6.15 4.67 5.13 9.10 12.23
1 kHz 6.65 6.87 7.13 6.68 1 kHz 6.70 6.22 6.56 6.15 2 kHz 7.43 7.70 8.12 7.96 2 kHz 6.72 6.32 6.76 6.32 3 kHz 13.39 14.32 15.07 15.02 3 kHz 8.11 7.85 8.46 7.74 4 kHz 17.32 18.43 19.52 19.67 4 kHz 8.88 9.29 9.94 9.67	Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz	40.0 10.68 9.09 10.71 19.32 24.33 27.28	Age 41.3 11.22 9.44 11.07 20.52 25.84 28.51 Age	(y) 42.5 11.69 10.10 11.73 21.36 27.25 29.33	43.7 10.85 9.02 11.25 21.06 26.95 28.67	Military (n=3029) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz	6.51 4.70 4.72 7.76 10.26 15.46	30.7 6.44 4.74 4.87 8.31 10.94 15.77	32.0 6.23 4.70 5.11 8.96 11.76 15.61	6.15 4.67 5.13 9.10 12.23 16.37
2 kHz 7.43 7.70 8.12 7.96 2 kHz 6.72 6.32 6.76 6.32 3 kHz 13.39 14.32 15.07 15.02 3 kHz 8.11 7.85 8.46 7.74 4 kHz 17.32 18.43 19.52 19.67 4 kHz 8.88 9.29 9.94 9.67	Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Male (n=6207) Frequency	40.0 10.68 9.09 10.71 19.32 24.33 27.28	Age 41.3 11.22 9.44 11.07 20.52 25.84 28.51 Age 35.9	(y) 42.5 11.69 10.10 11.73 21.36 27.25 29.33 (y) 37.1	43.7 10.85 9.02 11.25 21.06 26.95 28.67	Military (n=3029) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Female (n=365) Frequency	6.51 4.70 4.72 7.76 10.26 15.46	30.7 6.44 4.74 4.87 8.31 10.94 15.77 Age 36.3	32.0 6.23 4.70 5.11 8.96 11.76 15.61 e (y) 37.6	6.15 4.67 5.13 9.10 12.23 16.37
3 kHz 13.39 14.32 15.07 15.02 3 kHz 8.11 7.85 8.46 7.74 4 kHz 17.32 18.43 19.52 19.67 4 kHz 8.88 9.29 9.94 9.67	Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Male (n=6207) Frequency 0.5 kHz	40.0 10.68 9.09 10.71 19.32 24.33 27.28 34.6 8.26	Age 41.3 11.22 9.44 11.07 20.52 25.84 28.51 Age 35.9 8.45	42.5 11.69 10.10 11.73 21.36 27.25 29.33 2 (y) 37.1 8.55	43.7 10.85 9.02 11.25 21.06 26.95 28.67 38.3 8.19	Military (n=3029) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Female (n=365) Frequency 0.5 kHz	6.51 4.70 4.72 7.76 10.26 15.46 35.0 9.23	30.7 6.44 4.74 4.87 8.31 10.94 15.77 Age 36.3 8.94	32.0 6.23 4.70 5.11 8.96 11.76 15.61 \Rightarrow (y) 37.6 9.31	6.15 4.67 5.13 9.10 12.23 16.37 38.7
4 kHz 17.32 18.43 19.52 19.67 4 kHz 8.88 9.29 9.94 9.67	Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Male (n=6207) Frequency 0.5 kHz 1 kHz	40.0 10.68 9.09 10.71 19.32 24.33 27.28 34.6 8.26 6.65	Age 41.3 11.22 9.44 11.07 20.52 25.84 28.51 Age 35.9 8.45 6.87	42.5 11.69 10.10 11.73 21.36 27.25 29.33 2 (y) 37.1 8.55 7.13	43.7 10.85 9.02 11.25 21.06 26.95 28.67 38.3 8.19 6.68	Military (n=3029) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Female (n=365) Frequency 0.5 kHz 1 kHz	6.51 4.70 4.72 7.76 10.26 15.46 35.0 9.23 6.70	30.7 6.44 4.74 4.87 8.31 10.94 15.77 Age 36.3 8.94 6.22	32.0 6.23 4.70 5.11 8.96 11.76 15.61 9.31 6.56	6.15 4.67 5.13 9.10 12.23 16.37 38.7 8.77 6.15
4 kHz 17.32 18.43 19.52 19.67 4 kHz 8.88 9.29 9.94 9.67	Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Male (n=6207) Frequency 0.5 kHz 1 kHz 2 kHz	40.0 10.68 9.09 10.71 19.32 24.33 27.28 34.6 8.26 6.65 7.43	Age 41.3 11.22 9.44 11.07 20.52 25.84 28.51 Age 35.9 8.45 6.87 7.70	42.5 11.69 10.10 11.73 21.36 27.25 29.33 2 (y) 37.1 8.55 7.13 8.12	43.7 10.85 9.02 11.25 21.06 26.95 28.67 38.3 8.19 6.68 7.96	Military (n=3029) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Female (n=365) Frequency 0.5 kHz 1 kHz 2 kHz	6.51 4.70 4.72 7.76 10.26 15.46 35.0 9.23 6.70 6.72	30.7 6.44 4.74 4.87 8.31 10.94 15.77 Age 36.3 8.94 6.22 6.32	32.0 6.23 4.70 5.11 8.96 11.76 15.61 e (y) 37.6 9.31 6.56 6.76	6.15 4.67 5.13 9.10 12.23 16.37 38.7 6.15 6.32
	Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Male (n=6207) Frequency 0.5 kHz 1 kHz 2 kHz	40.0 10.68 9.09 10.71 19.32 24.33 27.28 34.6 8.26 6.65 7.43 13.39	Age 41.3 11.22 9.44 11.07 20.52 25.84 28.51 Age 35.9 8.45 6.87 7.70 14.32	42.5 11.69 10.10 11.73 21.36 27.25 29.33 2 (y) 37.1 8.55 7.13 8.12 15.07	43.7 10.85 9.02 11.25 21.06 26.95 28.67 38.3 8.19 6.68 7.96 15.02	Military (n=3029) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Female (n=365) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz	6.51 4.70 4.72 7.76 10.26 15.46 35.0 9.23 6.70 6.72 8.11	30.7 6.44 4.74 4.87 8.31 10.94 15.77 Age 36.3 8.94 6.22 6.32 7.85	32.0 6.23 4.70 5.11 8.96 11.76 15.61 ≅ (y) 37.6 9.31 6.56 6.76 8.46	6.15 4.67 5.13 9.10 12.23 16.37 38.7 8.77 6.15 6.32 7.74
	Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Male (n=6207) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz	40.0 10.68 9.09 10.71 19.32 24.33 27.28 34.6 8.26 6.65 7.43 13.39	Age 41.3 11.22 9.44 11.07 20.52 25.84 28.51 Age 35.9 8.45 6.87 7.70 14.32	42.5 11.69 10.10 11.73 21.36 27.25 29.33 2 (y) 37.1 8.55 7.13 8.12 15.07	43.7 10.85 9.02 11.25 21.06 26.95 28.67 38.3 8.19 6.68 7.96 15.02	Military (n=3029) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz 4 kHz 6 kHz Female (n=365) Frequency 0.5 kHz 1 kHz 2 kHz 3 kHz	6.51 4.70 4.72 7.76 10.26 15.46 35.0 9.23 6.70 6.72 8.11	30.7 6.44 4.74 4.87 8.31 10.94 15.77 Age 36.3 8.94 6.22 6.32 7.85	32.0 6.23 4.70 5.11 8.96 11.76 15.61 ≅ (y) 37.6 9.31 6.56 6.76 8.46	6.15 4.67 5.13 9.10 12.23 16.37 38.7 8.77 6.15 6.32 7.74

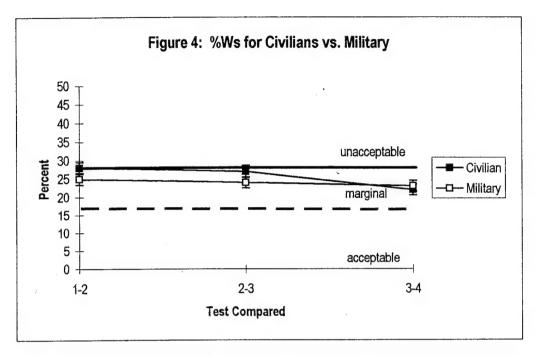
Appendix B: Figures

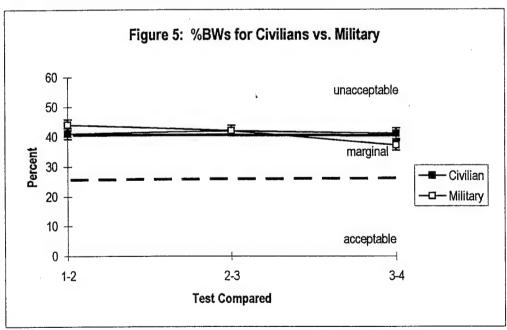
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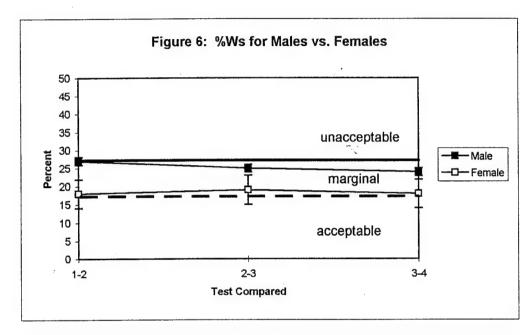


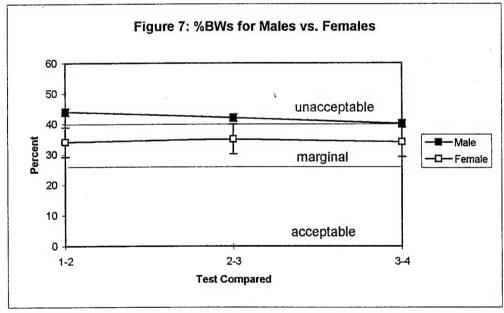


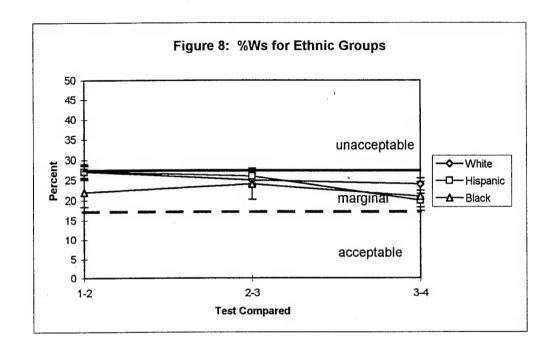


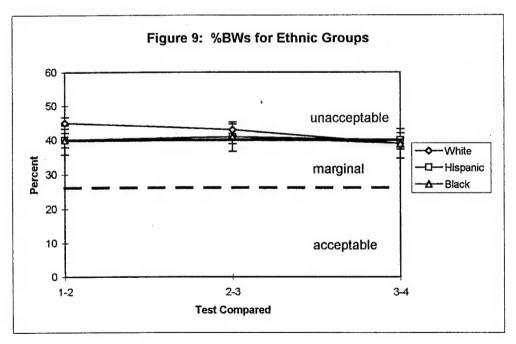


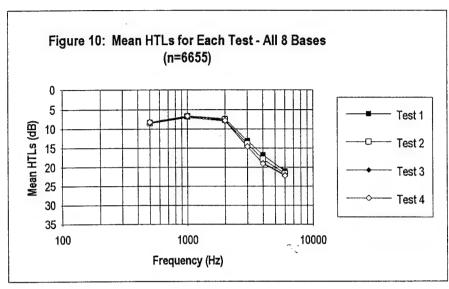


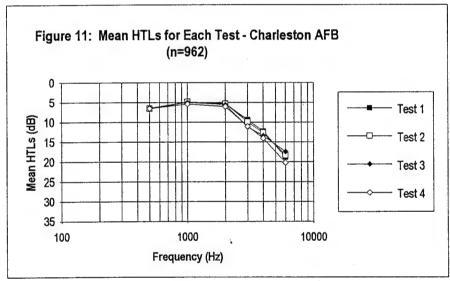


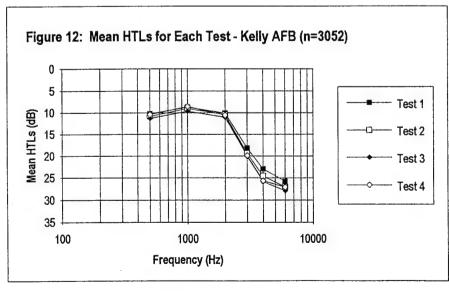


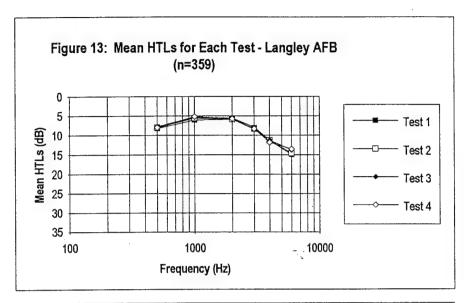


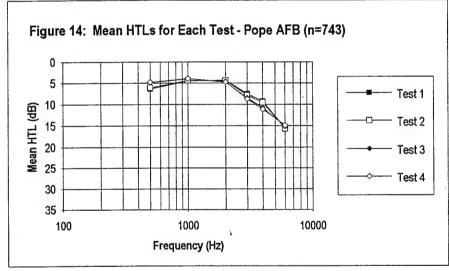


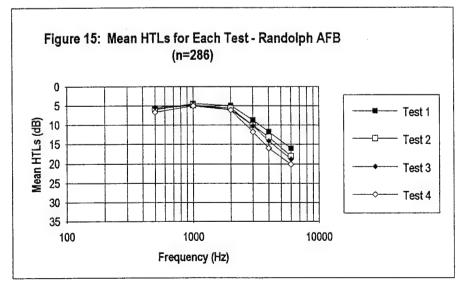


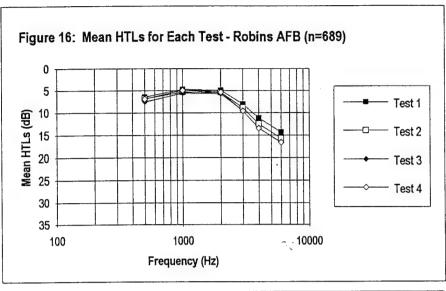


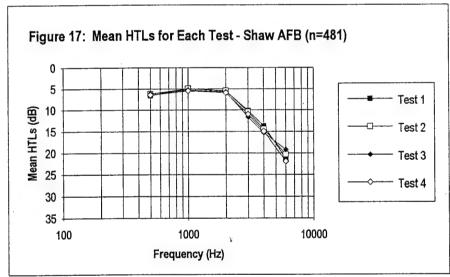


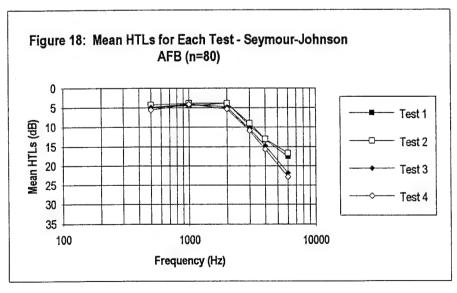


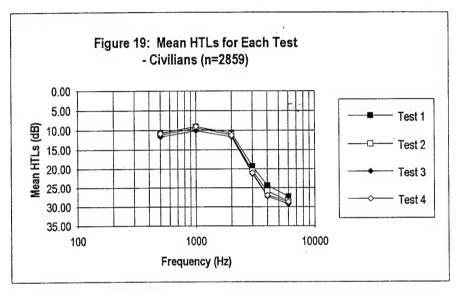


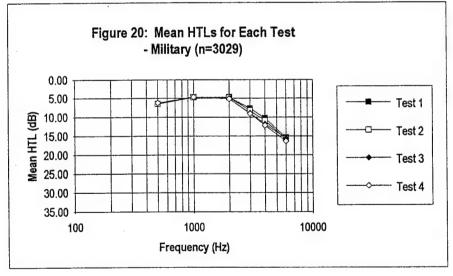


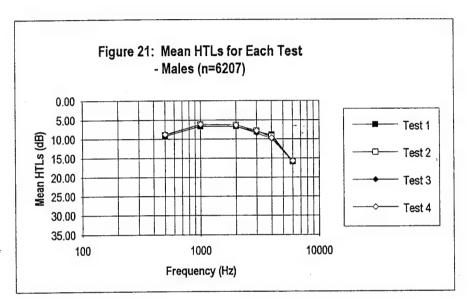


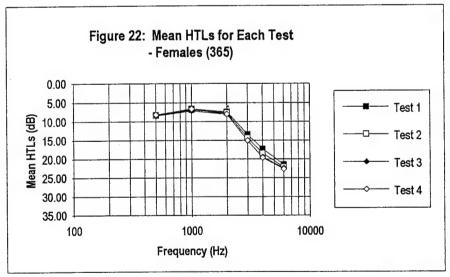


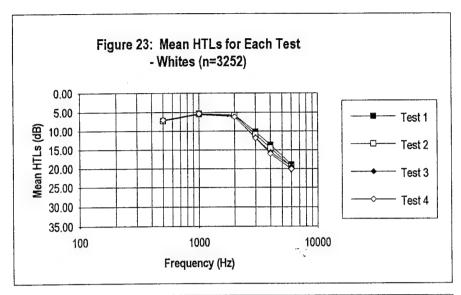


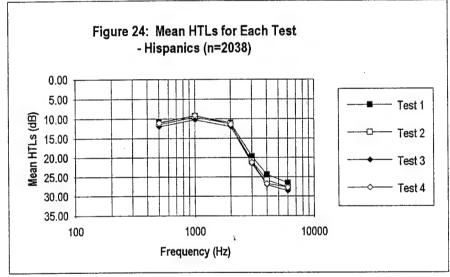


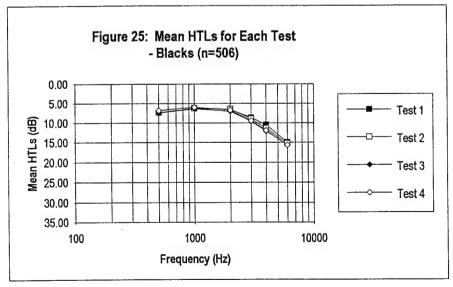


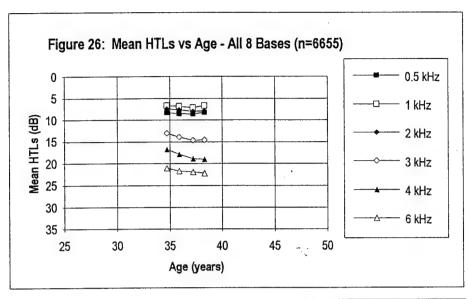


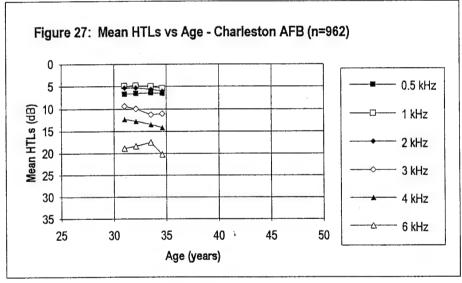


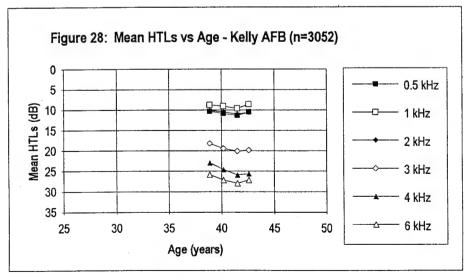


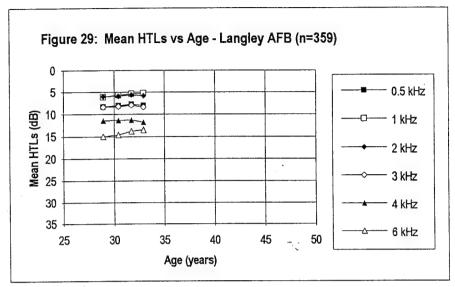


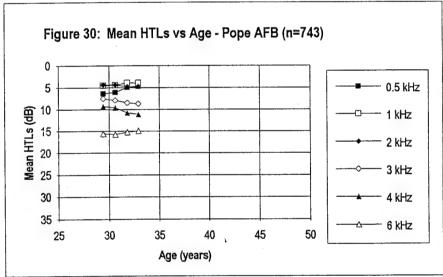


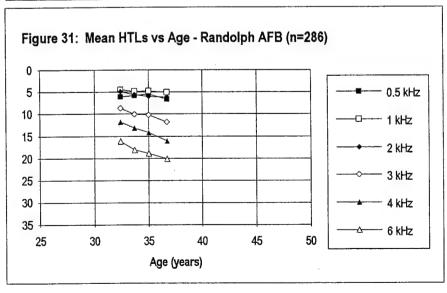


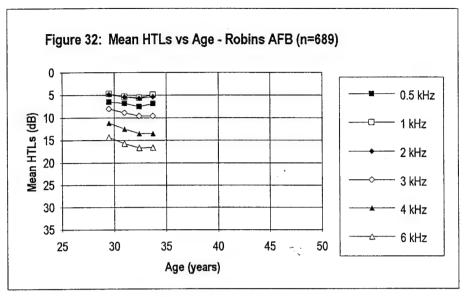


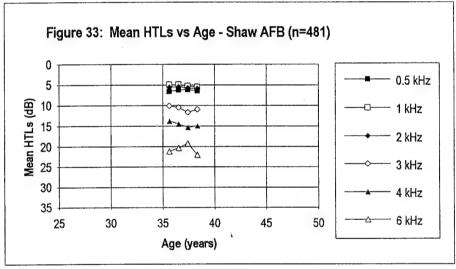


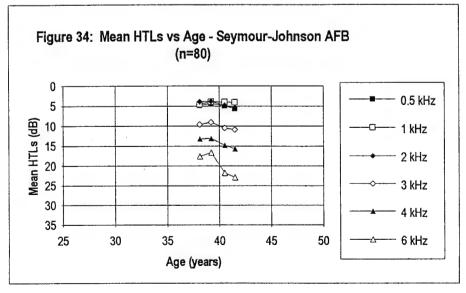


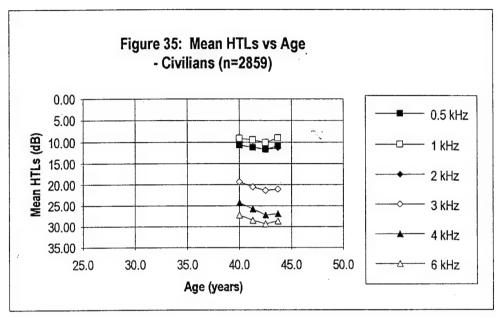


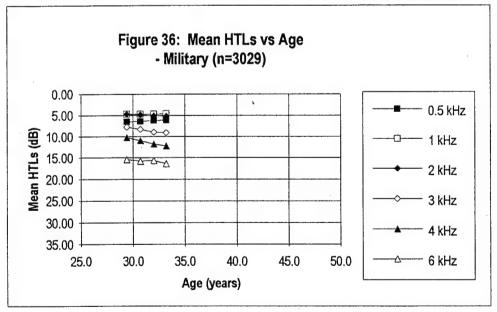


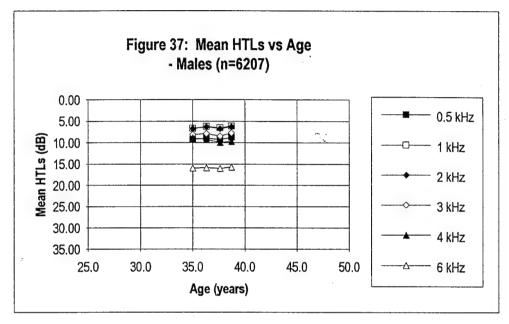


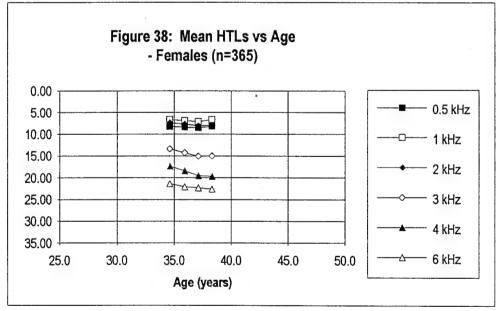


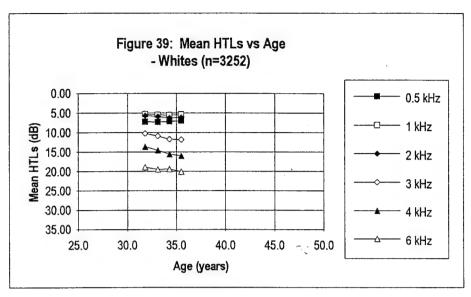


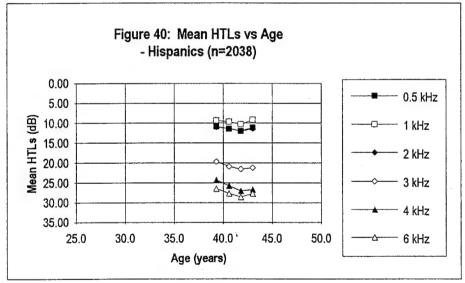


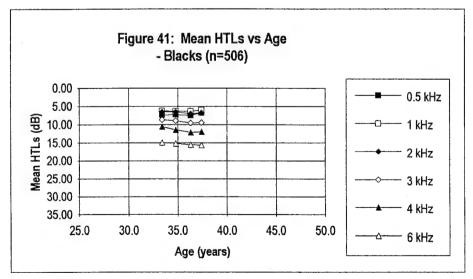


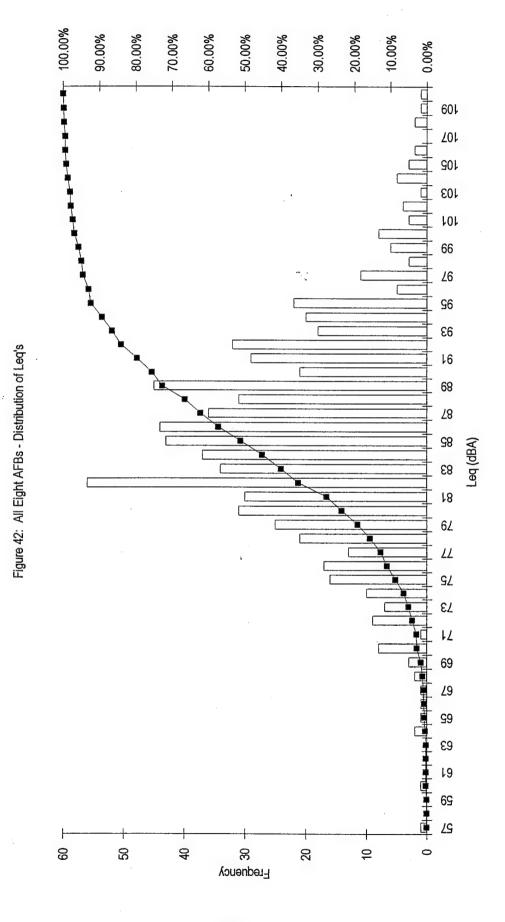






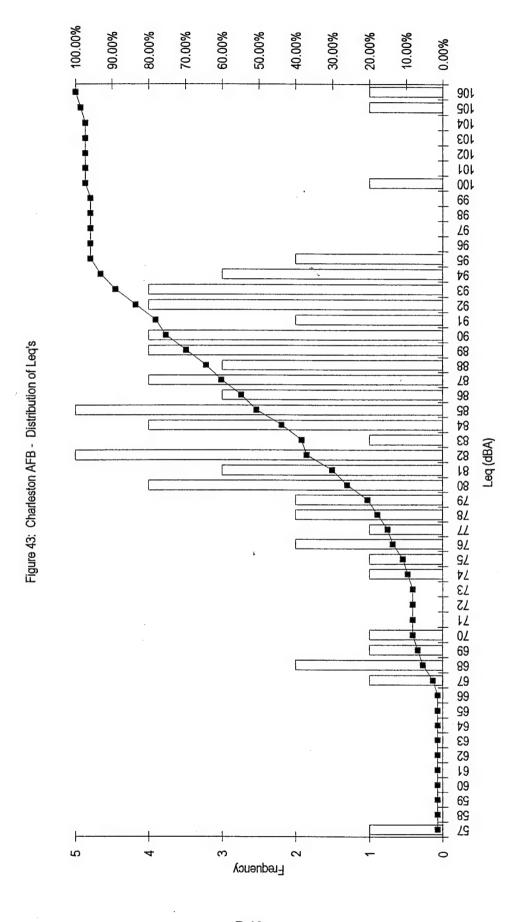




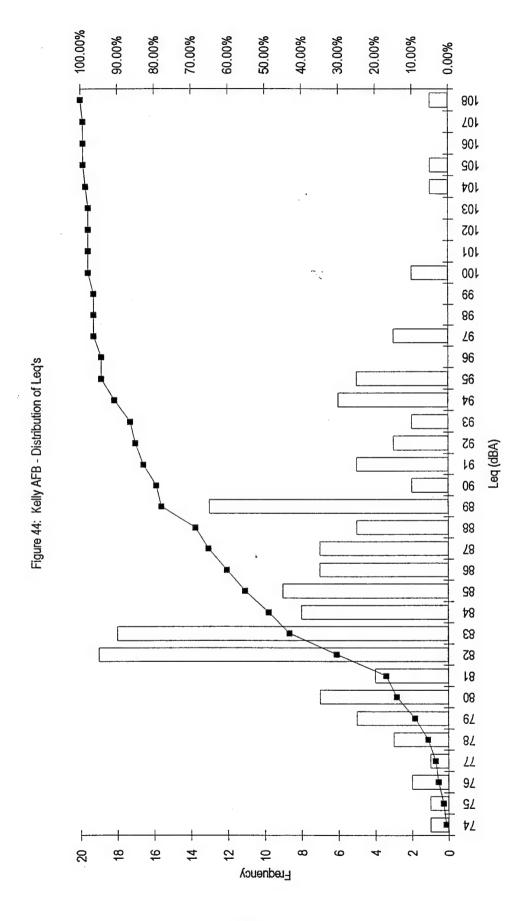


8 AFBs 723 work areas

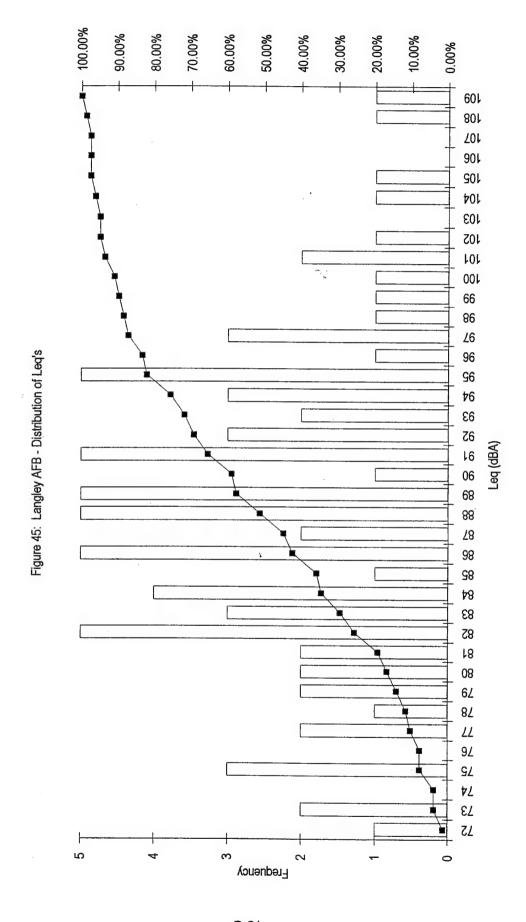




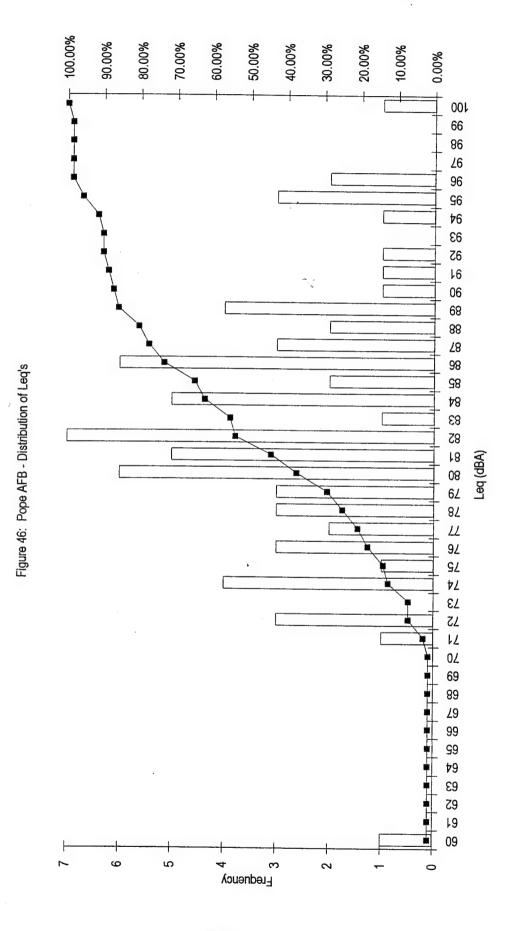




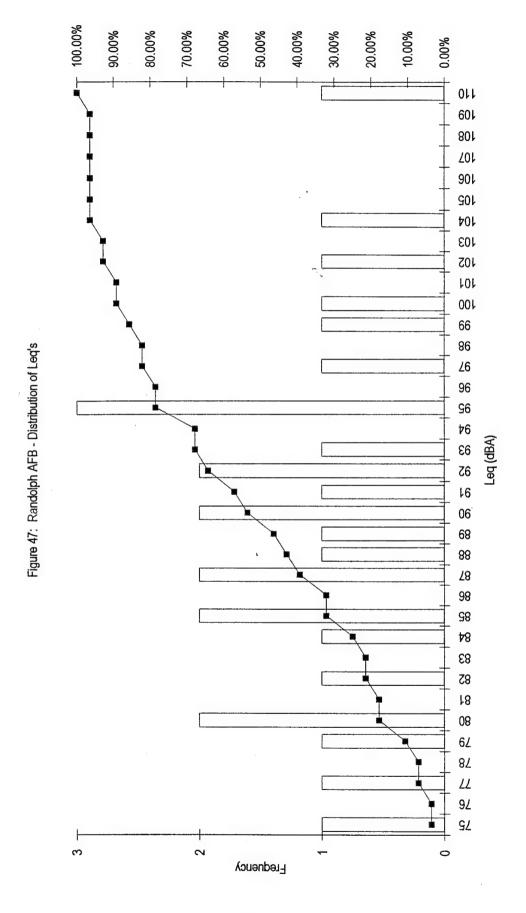


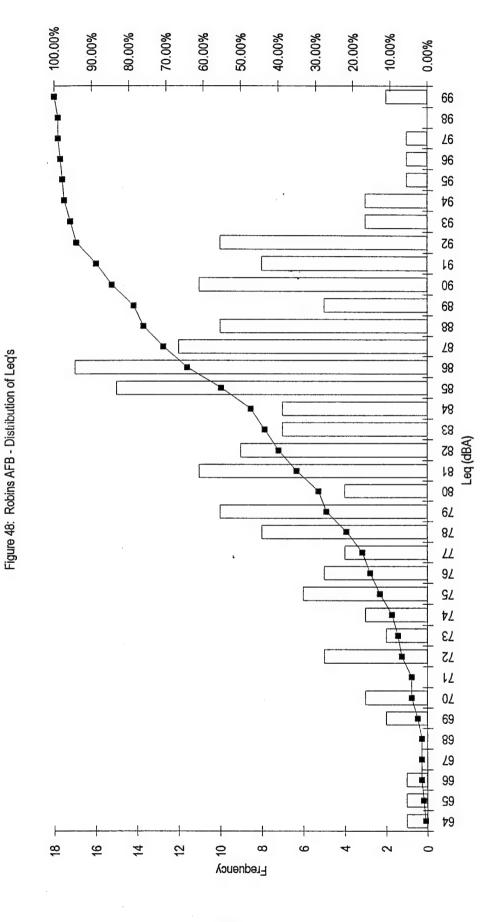






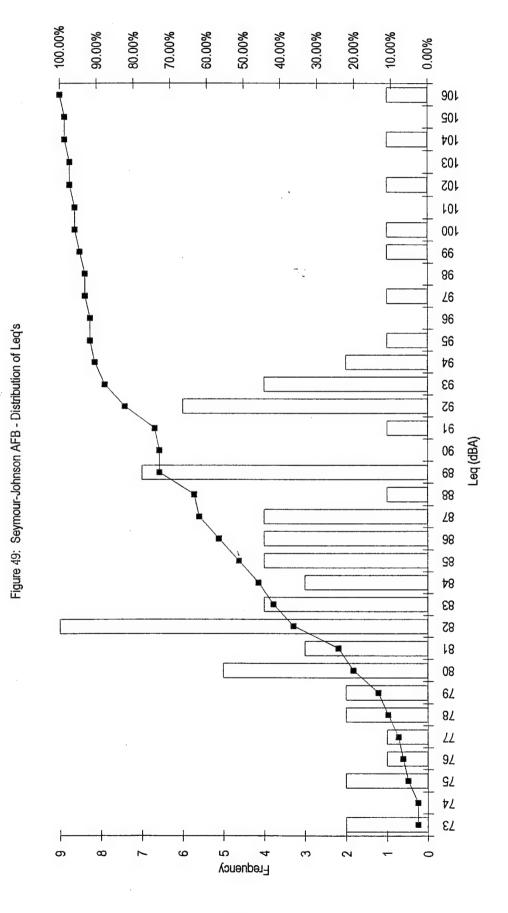




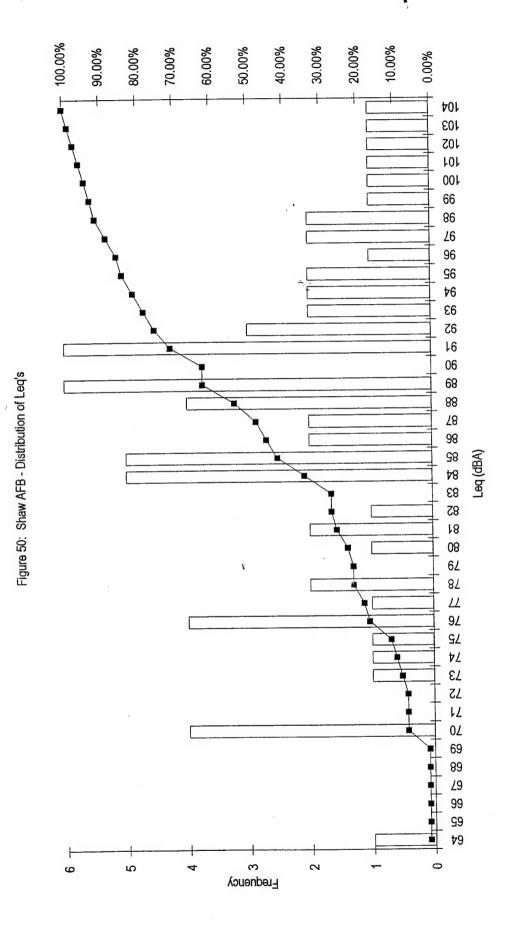


188 work areas 2072 samples









Appendix C: Group Descriptive Statistics

<u>Tables</u> Page C-1

Group Descriptive Statistics

		ALL AED	- /NI-CC	EE\
		ALL AFB: Test 2	Test 3	
A A (v)	Test 1 34.7	35.9	37.2	38.3
Avg Age (y)	6.9	8.2	9.4	10.5
Avg Service (y)	0.5	0.2	3.4	10.5
	Cha	arleston A	FR (N=	(262)
	Test 1	Test 2	Test 3	
Aug Ago (4)	31.0	32.1	33.5	34.6
Avg Age (y)	6.5	7.6	9.0	10.0
Avg Service (y)	0.5	7.0	3.0	10.0
		Kelly AF	R (N=3(0521
	Test 1	Test 2	Test 3	
Avg Age (y)	38.9	40.2	41.5	42.6
	7.2	8.5	9.8	10.9
Avg Service (y)	1.2	0.5	9.0	10.3
	1.	angley Al	ER /N=3	350)
	Test 1		Test 3	
Ava Aao (v)	28.9	30.4	31.7	32.9
Avg Age (y)	5.8	7.3	8.6	9.8
Avg Service (y)	3.0	7.5	0,0	3.0
		Pope AF	R (N-7/	13)
	Test 1		Test 3	
A		30.6	31.8	32.9
Avg Age (y)	29.4			
Avg Service (y)	6.0	7.2	8.3	9.4
		White	(N=325)	521
			114 020	
	Test 1	Test 2	•	Test 4
Avg Age (y)	Test 1 31.8		•	
Avg Age (y) Avg Service (y)		Test 2	Test 3	Test 4
	31.8	Test 2 33.0	Test 3 34.3	Test 4 35.5
	31.8	Test 2 33.0	Test 3 34.3 9.0 (N=20	Test 4 35.5 10.2
	31.8	Test 2 33.0 7.7	Test 3 34.3 9.0 (N=20) Test 3	Test 4 35.5 10.2 38) Test 4
	31.8 6.5	Test 2 33.0 7.7 Hispanio	Test 3 34.3 9.0 (N=20	Test 4 35.5 10.2
Avg Service (y)	31.8 6.5 Test 1	Test 2 33.0 7.7 Hispanid Test 2	Test 3 34.3 9.0 (N=20) Test 3	Test 4 35.5 10.2 38) Test 4
Avg Service (y) Avg Age (y)	31.8 6.5 Test 1 39.3	Test 2 33.0 7.7 Hispanio Test 2 40.6	Test 3 34.3 9.0 (N=20) Test 3 41.8	Test 4 35.5 10.2 38) Test 4 43.0
Avg Service (y) Avg Age (y)	31.8 6.5 Test 1 39.3	Test 2 33.0 7.7 Hispanio Test 2 40.6	Test 3 34.3 9.0 (N=20) Test 3 41.8	Test 4 35.5 10.2 38) Test 4 43.0
Avg Service (y) Avg Age (y)	31.8 6.5 Test 1 39.3	Test 2 33.0 7.7 Hispanio Test 2 40.6 8.8	Test 3 34.3 9.0 (N=20) Test 3 41.8 10.1	Test 4 35.5 10.2 38) Test 4 43.0 11.2
Avg Service (y) Avg Age (y)	31.8 6.5 Test 1 39.3 7.6	Test 2 33.0 7.7 Hispanic Test 2 40.6 8.8 Military	Test 3 34.3 9.0 C (N=20) Test 3 41.8 10.1	Test 4 35.5 10.2 38) Test 4 43.0 11.2
Avg Service (y) Avg Age (y) Avg Service (y)	31.8 6.5 Test 1 39.3 7.6	Test 2 33.0 7.7 Hispanio Test 2 40.6 8.8 Military	Test 3 34.3 9.0 C (N=20) Test 3 41.8 10.1 V (N=30) Test 3	Test 4 35.5 10.2 38) Test 4 43.0 11.2 29) Test 4
Avg Age (y) Avg Service (y) Avg Age (y)	31.8 6.5 Test 1 39.3 7.6 Test 1 29.4	Test 2 33.0 7.7 Hispanio Test 2 40.6 8.8 Military Test 2 30.7	Test 3 34.3 9.0 (N=20) Test 3 41.8 10.1 (N=30) Test 3 32.0	Test 4 35.5 10.2 38) Test 4 43.0 11.2 29) Test 4 33.2
/g Service (y) /g Age (y) /g Service (y) /g Age (y)	31.8 6.5 Test 1 39.3 7.6	Test 2 33.0 7.7 Hispanio Test 2 40.6 8.8 Military	Test 3 34.3 9.0 C (N=20) Test 3 41.8 10.1 V (N=30) Test 3	Test 4 35.5 10.2 38) Test 4 43.0 11.2 29) Test 4
Avg Age (y) Avg Service (y) Avg Age (y)	31.8 6.5 Test 1 39.3 7.6 Test 1 29.4	Test 2 33.0 7.7 Hispanio Test 2 40.6 8.8 Military Test 2 30.7	Test 3 34.3 9.0 (N=20) Test 3 41.8 10.1 (N=30) Test 3 32.0	Test 4 35.5 10.2 38) Test 4 43.0 11.2 29) Test 4 33.2
Avg Age (y) Avg Service (y) Avg Service (y) Avg Age (y)	31.8 6.5 Test 1 39.3 7.6 Test 1 29.4	Test 2 33.0 7.7 Hispanio Test 2 40.6 8.8 Military Test 2 30.7 7.5	Test 3 34.3 9.0 (N=20) Test 3 41.8 10.1 (N=30) Test 3 32.0 8.8	Test 4 35.5 10.2 38) Test 4 43.0 11.2 29) Test 4 33.2 10.0
Avg Age (y) Avg Service (y) Avg Service (y) Avg Age (y)	31.8 6.5 Test 1 39.3 7.6 Test 1 29.4 6.2	Test 2 33.0 7.7 Hispanio Test 2 40.6 8.8 Military Test 2 30.7 7.5 Male	Test 3 34.3 9.0 (N=20) Test 3 41.8 10.1 (N=30) Test 3 32.0 8.8	Test 4 35.5 10.2 38) Test 4 43.0 11.2 29) Test 4 33.2 10.0
Avg Service (y) Avg Age (y) Avg Service (y) Avg Age (y) Avg Service (y)	31.8 6.5 Test 1 39.3 7.6 Test 1 29.4 6.2	Test 2 33.0 7.7 Hispanic Test 2 40.6 8.8 Military Test 2 30.7 7.5 Male Test 2	Test 3 34.3 9.0 Test 3 41.8 10.1 V (N=30) Test 3 32.0 8.8 (N=620 Test 3	Test 4 35.5 10.2 38) Test 4 43.0 11.2 29) Test 4 33.2 10.0
Avg Age (y) Avg Service (y) Avg Age (y) Avg Age (y)	31.8 6.5 Test 1 39.3 7.6 Test 1 29.4 6.2	Test 2 33.0 7.7 Hispanio Test 2 40.6 8.8 Military Test 2 30.7 7.5 Male	Test 3 34.3 9.0 (N=20) Test 3 41.8 10.1 (N=30) Test 3 32.0 8.8	Test 4 35.5 10.2 38) Test 4 43.0 11.2 29) Test 4 33.2 10.0

Appendix D: First Page Output of CMPALL.EXE Program

Page D-1

Output
First Page Output of CMPALL.EXE Program

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ALL REPORTS TO BE GENERATED ARE FOR EMPLOYEES WITH AT LEAST THE FIRST 4 REPORTS AUDIOGRAMS IN THEIR FILE.

THE FOLLOWING 3 REPORTS ARE TO BE GENERATED:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATEGORY 9 : AVG AT 2 3 4 CHANGED MORE THAN OR EQUAL TO 10 DB
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N BETWEEN AUDIOGRAMS REPORT GENERATOR ENVIRONMENTAL NOISE CONSULTANTS, INC
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                                                                      TELEPHONE: (919) 782-1624
FAX: (919) 781-2396
PC SOFTWARE VERSION BY:
AXAXAXAXAXAXAXAXAXAX
                                                           RALEIGH, NC. 27622-0698
                                                                                                                                    MHz BUSINESS SOLUTIONS
                                                                                                                                                            GREENSBORO, NC 27410
                                                                                                                                                 3900 W. FRIENDLY AVE.
                         LARRY H. ROYSTER
                                      DR. JULIA D. ROYSTER
                                                 P.O. BOX 30698
                                                                                                                         RODNEY THOMAS
    COMPARISON
              (C) 1993
DR. LARRY
```

NOTE -- ALL TESTS ARE MADE FOR EITHER EAR, NOT COMBINED EARS (IE. CORRESPONDING FREQUENCY LEVELS ARE NOT AVERAGED TOGETHER TO GET A SINGLE NUMBER. THE EARS ARE EXAMINED SEPARATELY.)
NOTE -- MANY PAIRS OF THE CATEGORIES WILL GIVEIDENTICAL RESULTS BECAUSE NO READING WAS MADE AT THE 8K FREQUENCY LEVEL.

Appendix E: Shift Results for All Eight AFBs

Page	Shift Result
E-1	Test 1-2 Comparison
E-2	Test 2-3 Comparison
E-3	Test 3-4 Comparison

PAGE

TEST 1 TO 2 COUNT OF PEOPLE IN THIS GROUP= 6655 AXXXXXXXXXXXXXXX

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PAGE

DATE= 941108

COUMT OF PEOPLE IN THIS GROUP- 6655 TEST 2 TO 3 AAAAAAAAAAA

0.0 0.0 0.0 0.0 0.2 7.1 5.0 0.8 4.3 9.0 0.3 3.6 3.5 0.2 4.3 0.1 0.0 0.0 0.0 0.0 0.4 9.6 7.0 1.1 0.7 0.9 5.1 0.5 9.0 0.2 0.2 5.9 0.0 0.0 0.0 0.0 6.6 0.2 7.5 1.0 6.3 0.8 0.4 5.2 0.3 5.0 6.2 ×

521.0 8.1 536.0 530.0 1780.0 1318.0 1318.0 1621.0 1621.0 1017.0 1017.0 8.0 26.7 19.8 19.8 24.4 24.4 15.3 15.3 536.0 8.1 521.0 7.8 901.0 13.5 813.0 14 901.0 813.0 12.2 750.0 11.3 9.6 637.0 12 637.0 11.3 750.0 11 886.0 13.3 336.0 1024.0 5.0 15.4 10 NUMBER 208.0 3.1 CATEGORY 1666.0 1419.0 2788.0 715.0 9.5 2789.0 5644.0 1266.0 2788.0 2789.0 5644.0 1266.0 41.9 84.8 19.0 41.9 41.9 84.8 19.0 611.0 611.0 1419.0 1419.0 3441.0. 9.2 21.3 21.3 51.7 715.0 1666.0 1667.0 4027.0 10.7 25.0 25.0 60.5 9 3441.0 51.7 1667.0 4027.0 25.0 60.5 1419.0 3 25.0 EITHER PERCENT PERCENT PERCENT

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PAGE

COUNT OF PEOPLE IN THIS GROUP- 6655 TEST 3 TO 4 ААААААААААА

0.0 0.0 0.0 0.0 7.1 0.2 511.0 7.7 4.9 0.1 511.0 4.3 -0.2 -0.3 -0.1 -0.1 884.0 13.3 3.5 3,3 13.3 884.0 4.0 0.0 0.0 743.0 0.0 0.0 8.6 0.2 CATEGORY NUMBER
8 9 7.0 0.1 0.0 6.1 5.2 -0.4 -0.2 5.0 5.7 -0.3 0.0 0.0 S 0.0 0.0 7.6 0.2 7.2 0.1 6.3 -0.2 5.0 -0.1 -0.5 -0.4

1290.0 1290.0 1534.0 1534.0 19.4 19.4 23.1 23.1 778.0 743.0 632.0 632.0 19.4 11.2 974.0 451.0 1676.0 6.8 25.2 851.0 12.8 246.0 213.0 2659.0 723.0 1546.0 10.9 23.2 618.0 1414.0 9.3 21.2 2660.0 5583.0 1258.0 2659.0 2660.0 5583.0 1258.0 40.0 83.9 18.9 40.0 40.0 83.9 18.9 3795.0 723.0 1546.0 1546.0 3637.0 10.9 23.2 23.2 54.7 618.0 1414.0 1415.0 9.3 21.2 21.3 1546.0 3637.0 23.2 54.7 1415.0 3795.0 21.3 57.0 PERCENT PERCENT PERCENT BETTER EITHER

467.0

778.0 11.7

926.0 13.9

926.0 13.9

Appendix F: Shift Results for Individual AFB Groups

Page	Shift Result
F-1	Test 1-2 Comparison - Charleston AFB
F-2	Test 2-3 Comparison - Charleston AFB
F-3	Test 3-4 Comparison - Charleston AFB
F-4	Test 1-2 Comparison - Kelly AFB
F-5	Test 2-3 Comparison - Kelly AFB
F-6	Test 3-4 Comparison - Kelly AFB
F-7	Test 1-2 Comparison - Langley AFB
F-8	Test 2-3 Comparison - Langley AFB
F-9	Test 3-4 Comparison - Langley AFB
F-10	Test 1-2 Comparison - Pope AFB
F-11	Test 2-3 Comparison - Pope AFB
F-12	Test 3-4 Comparison - Pope AFB
F-13	Test 1-2 Comparison - Randolph AFB
F-14	Test 2-3 Comparison - Randolph AFB
F-15	Test 3-4 Comparison - Randolph AFB
F-16	Test 1-2 Comparison - Robins AFB
F-17	Test 2-3 Comparison - Robins AFB
F-18	Test 3-4 Comparison - Robins AFB
F-19	Test 1-2 Comparison - Seymour-Johnson AFB
F-20	Test 2-3 Comparison - Seymour-Johnson AFB
F-21	Test 3-4 Comparison - Seymour-Johnson AFB
F-22	Test 1-2 Comparison - Shaw AFB
F-23	Test 2-3 Comparison - Shaw AFB
F-24	Test 3-4 Comparison - Shaw AFB

TEST 1 TO 2 COUNT OF PEOPLE IN THIS GROUP= 962

100 2000 3000 4000 6000 1KRYSA KAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKA		AAAAA	AAAAAAAAAAAA	MARAN		LEET EAR	EAR							~	RIGHT EAR	EAR						ŏ	MBINE	COMBINED EAR	~		
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 1 0 1 4 0 1 0 1 4 1 2 1 4 1 4 4 3 4 6 2 5 10 42 42 62 86 86 86 16 16 158 45 475 420 249 16 16 16 158 45 475 420 24 26 16 16 16 159 45 475 420 24 26 24 26 26 160 45 475 420 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 17 17 17 17 17 17 17 17 <td>40</td> <td>0</td> <td>7</td> <td>. 8</td> <td>4</td> <td>П</td> <td>2</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>ю</td> <td>0</td>	40	0	7	. 8	4	П	2	0	0		0	0	0	0	0	ю	0	0	0	0	0	0	0	0	0	0
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61 39 37 52 58 69 98 0 0 0 3 64 65 56 67 127 0 0 3 70 70 70 70 70 70 70 70 70 70 70 70 70	36 42 56 67 127 10 8 8 18 50 1 2 3 8 30 3 0 3 2 7 1 0 0 2 5 1 0 0 2 5 0 0 0 0 3 0 0 0 0 3 0 0 0 0 3 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5	191	175	164	160	164	181	0	0	1 1(Н	58 1				691	0	0	125	115	105	114	124	181	0	0
10 2 6 6 14 14 14 48 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 8 8 18 50 1 2 3 8 30 3 0 3 2 7 1 0 0 2 5 0 0 0 3 **** HEARING GOT BETTER	-10	61	39	37	52	58	98	0	0			36	42	99		127	0	0	39	14	13	22	31	11	0	0
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0, 0, 0, 0, 0, 3, 7, 0, 0, 0, 0, 0, 0, 0, 0, 3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	0 0 0 0 3 0 0 1 1 **** HEARING GOT BETTER	-30	0	0	0	-	2	9	0	0		7	ч	0	0	2	2	0	0	0	0	0	0	7	П	0	0
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	**** HEARING GOT BETTER	-40	0		0	0	က	7	0	0		0	0	0	0	н	٦	0	0	0	0	0	0	0	0	0	0

-0.1 -0.1 0.0 0.4 0.3 -0.4 0.0 0.0 4.7 3.5 3.4 4.2 5.0 7.8 0.0 0.0 -0.1 -0.0 0.0 0.3 0.1 -0.6 0.0 0.0 6.3 5.0 4.9 5.6 6.7 10.2 0.0 0.0 -0.2 -0.1 -0.0 0.8 0.7 -0.4 0.0 0.0 6.7 5.0 5.0 6.8 7.5 11.2 0.0 0.0

16	94.0	106.0	193.0
15	94.0	106.0	193.0
14	157.0	165.0	299.0 31.1
13	157.0	165.0	299.0 31.1
12	129.0	140.0	255.0 26.5
11	129.0	140.0	255.0
10	171.0	169.0 17.6	312.0
o	43.0	41.0	84.0
8	256.0 26.6	255.0 26.5	460.0 460.0 827.0 245.0 460.0 84.0 312.0 255.0 255.0 299.0 47.8 47.8 86.0 25.5 47.8 8.7 32.4 26.5 26.5 31.1
7	126.0	133.0	245.0 25.5
9	573.0 59.6	547.0	827.0
ഹ	256.0	255.0 26.5	460.0
4	256.0	255.0 26.5	460.0
e	126.0	133.0 13.8	245.0
2	573.0	547.0	827.0 86.0
٦	256.0 26.6	255.0 26.5	460.0
	WORSE PERCENT	BETTER PERCENT	EITHER PERCENT
	5 6 7 8 9 10 11 12 13 14 15	256.0 573.0 126.0 256.0 573.0 126.0 256.0 43.0 171.0 129.0 129.0 157.0 157.0 94.0 26.6 59.6 13.1 26.6 26.6 59.6 13.1 26.5 9.6 13.1 26.5 9.8	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 256.0 573.0 256.0 573.0 126.0 256.0 43.0 171.0 129.0 157.0 157.0 94.0 26.6 59.6 13.1 26.6 4.5 17.8 13.4 13.4 16.3 16.3 9.8 255.0 547.0 133.0 255.0 547.0 133.0 255.0 41.0 169.0 140.0 165.0 165.0 166.0 26.5 56.9 13.8 26.5 56.9 13.8 26.5 44.3 17.6 14.6 14.6 14.6 14.6 14.6 17.2 11.0

PAGE

COUNT OF PEOPLE IN THIS GROUP- 962 TEST 2 TO 3

0.0 0.0 0.0 0.0 7.9 0.6 -0.7 5.0 6.0 4.1 3,3 0.2 0.1 3.6 4.3 -0.1 0.0 0.0 0.0 -0.3 -0.0 0.0 1.1 1.2 -0.7 0.0 6.9 10.15.6 5.7 4.8 4.6 0.0 0.0 0.0 0.2 -0.9 0.0 7.9 10.9 6.4 1.4 0.5 5.3 0.3 -0.1

88.0 105.0 183.0 16 9.1 88.0 10.9 183.0 19.0 15 0.501 9.1 138.0 274.0 157.0 16.3 138.0 157.0 274.0 13 234.0 121.0 12.6 13.6 131.0 121.0 12.6 131.0 13.6 234.0 11 16.0 292.0 30.4 10 154.0 165.0 17.2 NUMBER 52.0 5.4 25.0 76.0 CATEGORY 234.0 253.0 26.3 0 m 436. 119.0 129.0 231.0 555.0 57.7 57.0 814.0 548.0 253.0 26.3 436.0 24.3 234.0 253.0 26.3 436.0 24.3 234.0 231.0 119.0 13.4 12.4 129.0 548.0 57.7 57.0 814.0 555.0 436.0 234.0 253.0 26.3 EITHER PERCENT BETTER PERCENT PERCENT WORSE

TEST 3 TO 4 COUNT OF PEOPLE IN THIS GROUP= 962

AAAA	аааааааааааа	GAMAA																						
DB	500	0001	2000	1.EFT 3000	LEFT EAR 1000 4000	6000	8000	LEFT EAR 500 1000 2000 3000 4000 6000 8000 1KRTS	200	500 1000 2000		RIGH 3000	RIGHT EAR 000 4000 (RIGHT EAR 3000 4000 6000 8000 1KRTS	10001	KRTS	200	1000	2000	COMBINED EAR 3000 4000 6	ED EA	COMBINED EAR 500 1000 2000 3000 4000 6000 8000 1KRTS	3000 1	KRTS
AAAA	аааааааааааааааа	TAKKK	aaaaa	MAAAA	AAAA	VAAAA	IAAAAA	AAAAAA	алалаланала	* * * *		HEARING GOT		WORSE **	** AZ	VANAAN	**** KABABABABABABABABABABABABABABABABABABAB	ааааа	aaaaa	AAAAA	AAAAA	aaaaa	\AXAA?	MAAAA
40	н	0	0	0	4	n	0	0	1	0	0	~	2	13	0	0	. e e	0	0	0	1	m	0	0
35	0	0	0	0	П	S	0	0	1	1	1	-4	П	4	0	0	0	0	0	Н	0	-	0	0
30	7	2	1	0	m	12	0	0	0	0	1	٦	0	4	0	0	0	0	0	0	0	4	0	0
25	2	0	2	т	9	16	0	0	4	0	-4	0	4	12	0	0		0	0	0	2	89	0	0
20	5	4	m	9	5	35	0	0	S	4	m	S	11	45	0	0	m m	2	7	Т	S	22	0	0
15	7	4	11	14	20	09	0	0	17	7	ω	21	16	19	0	0	5	m	7	Ω	13	43	0	0
10	53	43	36	67	107	159	0	0	61	59	56	75	100	142	0	0	31	16	15	35	34	117	0	0
2	184	166	188	140	187	170	0	0	180	213	162	167	178	176	0	0	132	117	113	121	179	200	0	0
0	412	543	541	388	360	228	962	962	472	499	572	446	404	253	962	362	630	741	742	608	571	387	962	962
-5	217	163	130	248	159	125	0	0	174	142	124	166	164	118	0	0	134	12	68	157	123	115	0	0
-10	62	27	36	7.0	81	85	0	0	38	31	25	55	54	11	0	0	19	9	Ø	24	24	40	0	0
-15	10	m	9	13	19	33	0	0	m	8	7	0	13	24	0	0	ζ.	Э	5	7	5	12	0	0
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-30	0	0	1	m	2	5	0	0	0	0	Н	0	т	4	0	0	0	0	0	0	0	1	0	0
-35	0	0	0	0	٦	2	0	0	0	0	Т	0	н	2	0	0	0	0	ч	0	0	7	0	0
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AAAA	AAAAA	MAMA	KAKAK	aaaaa	AAAA	LAKKAZ	WAXAA	<u> аааааааааааааааааааааааааааааааааааа</u>	ААААА	* * * *		ING G	OT BE	rter *	***	VÄÄÄÄÄ	HEARING GOT BETTER **** ARKKKKAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAAA	AAAAA	aaaa	aaaa	aaaar	KAAAA	AAAA

0.0 0.0 0.0 0.0 8.0 2.4 118.0 12.3 3.5 4.4 5.0 9.0 118.0 74.0 15 0.3 -0.1 202.0 120.0 12.5 0.3 4.4 3.2 202.0 120.0 12.5 13 0.2 177.0 107.0 0.0 0.0 0.0 177.0 107.0 Ξ 0.0 220.0 135.0 14.0 10 3.0 6.0 5.0 5.3 6.5 7.3 11.0 0.7 CATEGORY NUMBER 41.0 34.0 0.3 332.0 204.0 21.2 9.0 0.6 0.8 173.0 105.0 10.9 670.0 527.0 54.8 0.0 6.6 7.9 10.9 0.0 0.0 332.0 204.0 0.0 332.0 34.5 204.0 0.7 2.4 173.0 105.0 10.9 0.3 -0.7 670.0 527.0 54.8 5.2 332.0 34.5 204.0 5.5 0.2 6.1 -0.3 BETTER PERCENT PERCENT WORSE

177.0

177.0

293.0

293.0

263.0

263.0

318.0

75.0

461.0

258.0 26.8

846.0

461.0

461.0

258.0 26.8

846.0

461.0

EITHER PERCENT TEST 1 TO 2 COUNT OF PEOPLE IN THIS GROUP= 3052 RARARARARA

1KRTS	aaaaa	0	0	0	0	0	0	0	0	3052	0	0	0	0	0	0	0	0
COMBINED EAR 2000 3000 4000 6000 8000 1KRTS	AAAAA	0	0	0	0	0	0	0	0	3052	0	0	0	0	0	0	0	0
R 6000	AAAAA	Э	7	9	14	29	69	250	664	1370	455	135	37	10	9	7	Н	۰.
COMBINED EAR 3000 4000 6	AAAAA	-	0	9	9	15	36	203	673	1692	339	61	14	4	r=4	0	-	0
OMBIN 3000	aaaaa	2	0	2	2	7	37	143	584	1916	303	38	13	8	2	1	0	0
C 2000	aaaaa	0		8	2	n	σ	68	429	2140	347	41	5	4	 1	0	0	0
500 1000	ааааа	0	0	2	2	П	11	62	459	2087	369	51	9	П	Н	0	0	0
500	**** АААЛАКАДАЛАКАЛАКАКАКАКАКАКАКАКАКАКАКАКАК	0	0	0	5	4	15	113	574	1834	420	72	12	2	0	0	0	2 2 0 0 1 1 0 0 0 0 0 0 0 0
Ñ	AAAA					s m (• • •	. .	• • •						9 19 19	• • •		
1KRT	аааа	0	0	0	0	0	0	0	0	3052	0	0	0	0	0	0	0	0
RIGHT EAR 3000 4000 6000 8000 1KRTS	* *	0	0	0	0	0	0		0	3052	0	0	0	0	0	0	0	0
6000	WORSE	ω	9	13	24	56	156	391	625	829	549	245	91	36	19	2	0	8
RIGHT EAR 000 4000	SOT W	-	2	4	13	39	88	335	739	1103	533	136	41	10	e	m	0	8
RIG 3000	HEARING GOT	0	2	4	9	20	67	239	758	1241	558	124	25	4	2		0	7
2000		0	0	8	1	89	27	156	610	1472	641	110	19	4	2	0	0	0
500 1000	* * * *	ı	0	2	E	9	18	151	689	1368	199	112	27	2	2	ч	0	0
200	ANNAAAAAAA	ю	ч	0	2	12	43	217	707	1236	595	190	31	11	m	0	0	-40 0 0 1 1 0 6 0 0 1 1
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LEFT EAR 500 1000 2000 3000 4000 6000 8000 1KRTS	KAKAKA	0	0	0	0	. 0	0	0	0	30	0	0	0	0	0	0	0	0
00 800	AAAA	7	9	5	27	68	5	6	1	4 3052	89	ø	98	37	13	8	2	9
R 0 600	AAAAA	2	4	7 1	4		8 165	7 383	8 601	6 794	2 568	8 256			4 1	2	0	0
LEFT EAR 000 4000	KAAAA	m	en.		8 1,	6 26	6. 98	1 357	3 738	1 1096	0 482	3 158	1 45	5 13	9			
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TEST 2 TO 3 COUNT OF PEOPLE IN THIS GROUP= 3052

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TEST 3 TO 4 COUNT OF PEOPLE IN THIS GROUP= 3052 AMANANAMARANAM

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TEST 1 TO 2 COUNT OF PEOPLE IN THIS GROUP— 359

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	15	26.0	7.2	33.0	9.5	58.0	16.2
	14	38.0	10.6	50.0	13.9	87.0	24.2
	13	38.0	10.6	50.0	13.9	87.0	24.2
	12	31.0	8.6	38.0	10.6	0.69	19.2
	11	31.0	9.8	38.0	10.6	0.69	19.2
	10	42.0	11.7	56.0	15.6	95.0	26.5
NUMBER	0	16.0	4.5	17.0	4.7	33.0	9.5
CALEGORI	ω	72.0		86.0	24.0	147.0	
	7	29.0	8.1	33.0	9.5	62.0	17.3
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	4 5 6	29.0 72.0 72.0 187.0	8.1 20.1 20.1 52.1	33.0 86.0 86.0 207.0	9.2 24.0 24.0 57.7	62.0 147.0 147.0 306.0	17.3 40.9 40.9 85.2
	3 4 5 6	29.0 72.0 72.0 187.0	20.1 20.1 52.1	33.0 86.0 86.0 207.0	9.2 24.0 24.0 57.7	147.0 306.0 62.0 147.0 147.0 306.0	40.9 85.2 17.3 40.9 40.9 85.2
	3 4 5 6	29.0 72.0 72.0 187.0	20.1 52.1 8.1 20.1 20.1 52.1	33.0 86.0 86.0 207.0	24.0 57.7 9.2 24.0 24.0 57.7	62.0 147.0 147.0 306.0	40.9 85.2 17.3 40.9 40.9 85.2

TEST 2 TO 3 COUNT OF PEOPLE IN THIS GROUP- 359

RTS	WAAA	0	0	0	0	0	0	0	0	359	0	0	0	0	0	0	0	0	AAA
000 1K	LAAAAA	0	0	0	0	0	0	0	0	359 3	0	0	0	0	0	0	0	0	AAAAA
000	'AAAA	ı	1	0	0	2	2	24	58	158 3	7.0	34	9	7	~	н	0	0	ааааа
) EAR	VAXXX	0	7	0	1	-	2	æ	53	223 1	51	14	Ω	0	0	0	0	0	AAAAA
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CO)	LAKKKI	0	0	0	0	7	0	2	29	266	56	2	0	0	0	0	0	0	AAAAA
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COMBINED EAR 500 1000 2000 3000 4000 6000 8000 1KRTS	**** ЖАЧАЛАБАНДАДАДАДБАККАНДАКАКАДАДАДДАДАДАДАДД	0	0	ч	0	0	2	2	48	240	53	6	m	ı	0	0	0	0	ВЕТТЕR **** АКАКАКАКАКАКАКАКАКАКАКАКАКАКАКАКАК
	ääää			• • •	• m e	9 19 1						1							4AAA
IKRTS	aaaaa	0	0	0	0	0	0	0	0	359	0	0	0	0	0	0	0	0	MANAN
RIGHT EAR 3000 4000 6000 8000 1KRTS	*** W	0	0	0	0	0	0	0	0	359	0	0	0	0	0	0	0	0	***
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500 1000 2000	*	0	0	-	0	0	m	7	28	188	87	14	Н	0	0	0	0	0	* *
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EAR 4000	aaaa	0	2	0	0	0	7	24	7.1	147	64	29	9	Ω	-	ო	0	0	LAMMA
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2000	gaaan	0	0	-	0	0	0	10	63	181	82	18	0	ч	0	0	0	0	AAAAA
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500 1	аамамамамамамамамамамамамамамамамам	1	0	П	0	2	4	20	67	157	81	17	9	1	81	0	0	0	aaaaa
DB	AAAA	40	35	30	25	20	15	10	2	0	1.5	-10	-15	-20	-25	-30	-35	-40	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

-0.3--0.1 -0.2 -0.2 -0.0 -0.5 0.0 0.0 4.1 3.2 3.0 3.9 4.9 6.7 0.0 0.0 -0.5 -0.4 -0.1 -0.3 0.2 -0.8 0.0 0.0 5.7 4.6 4.5 5.1 6.4 8.8 0.0 0.0 6.4 4.7 4.6 6.6 7.3 9.5 0.0 0.0 -0.1 -0.1 -0.5 -0.4 -0.4 -0.8 0.0 0.0

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	16	23.0	9.9	31,0	8.6	51.0	14.2
	12	23.0	6.4	31.0	9.8	51.0	14.2
	14	37.0	10.3	42.0	11.7	71.0	19.8
	13	37.0	10.3	42.0	11.7	71.0	19.8
	12	28.0	7.8	32.0	8.9	56.0	15.6
	11	28.0	7.8	32.0	g. 8	56.0	15.6
	10	43.0	12.0	51.0	14.2	83.0	23.1
NUMBER		0.9	1.7	17.0	4.7	23.0	6.4
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	7	0 '	_				
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		181.0	18.4 50.4	206.0	24.5 57.4	297.0	35.9 82.7
	S	66.0 181.0	16.4 18.4 50.4	88.0 206.0	24.5 24.5 57.4	129.0 297.0	35.9 35.9 82.7
	S	181.0 27.0 66.0 66.0 181.0	50.4 7.5 I8.4 I8.4 50.4	206.0 29.0 88.0 88.0 206.0	57.4 8.1 24.5 24.5 57.4	297.0 52.0 129.0 129.0 297.0	82.7 14.5 35.9 35.9 82.7
	3 4 5	27.0 66.0 66.0 181.0	50.4 7.5 I8.4 I8.4 50.4	29.0 88.0 88.0 206.0	57.4 8.1 24.5 24.5 57.4	52.0 129.0 129.0 297.0	82.7 14.5 35.9 35.9 82.7

TEST 3 TO 4 COUNT OF PEOPLE IN THIS GROUP= 359

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0.0 0.0 0.0 0.0 5.7 0.4 -0.3 30.0 24.0 52.0 14.5 3.9 4.5 30.0 24.0 8.4 52.0 0.5 0.2 3.0 48.0 13.4 32.0 74.0 14 0.0 3.1 13.4 32.0 74.0 3.8 0.2 36.0 26.0 58.0 16.2 0.0 0.0 36.026.0 58.0 16.2 0.0 0.0 53.0 34.0 80.0 10 0.2 -0.4 0:1 0.3 -0.1 -0.7 8.2 6.5 CATEGORY NUMBER 18.0 $\frac{11.0}{3.1}$ 29.0 8.1 5.6 4.5 4.5 5.9 90.0 65.0 18.1 139.0 55.0 15.3 35.0 9.7 24.0 183.0 51.0 178.0 282.0 78.6 0.0 0.0 90.0 65.0 139.0 38.7 0.0 0.0 139.0 90.0 65.0 9.3 0.2 7.5 1.2 55.0 15.3 35.0 24.0 6.3 0.7 183.0 51.0 178.0 49.6 282.0 78.6 0.3 4.9 90.0 139.0 65.0 18.1 5.7 4.7 0.3 BETTER PERCENT WORSE PERCENT EITHER PERCENT

DATE= 941107

TEST 1 TO 2 COUNT OF PEOPLE IN THIS GROUP= 743

0.0 0.0 0.0 0.0 8.3 0.1 76.0 0.2 4.6 3.8 0.3 3.3 0.0 3.2 -0.2 -0.0 13 4.8 0.0 0.0 11 0.0 0.0 10 0.5 6.3 10.4 0.3 CATEGORY NUMBER 5.3 0.4 4.8 4.5 0.2 0.1 9.9 -0.2 9 0.0 0.0 S 0.0 0.0 7.2 11.2 0.3 -0.2 0.3 6.2 5.2 -0.1 5.0 -0.3 -0.2

80.0

148.0

DATE= 941107

COMPANISON DATA ON 1831 OF FORE ARB SAMPLE DATA BASE 4 TESTS LA TEST 2 TO 3 COUNT OF PEOPLE IN THIS GROUP= 743 AAAAAAAAAAAAA

1	LEFT EAR TO 1000 2000 3000 4000 6000 8000 1		000	LEFT EAR 000 4000	EAR 000 6	3 0005	8000 1	IKRTS		00 10	500 1000 2000		KIGHT EAR 000 4000	EAR 000 6	8 000	KIGHT EAR 3000 4000 6000 8000 1KRTS	KRTS	500	1000	2000	COMBINED EAR 500 1000 2000 3000 4000 6000 8000 1KRTS	1ED EA	R 6000	3000 1	KRTS	
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3 4 10 · 13 39 69 0 24 25 43 59 69 0 104 131 148 182 128 0 423 451 384 197 743 146 106 132 113 743 0 31 17 22 32 76 0 9 4 6 33 0 0 10 1 5 18 0 0 10 1 5 18 0 0 10 1 0 1 0 0 10 1 0 1 0 0 10 0 0 0 0 0 0 10 1 0 0 0 0 0 0 10 1 0 0 0 0 0 0 0 0 0	0	_	1	4	12	13	0	0		1	2	2	ı	വ	80	0	0	0	1	0	0	4	5	0	0	
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45.1 381 324 197 743 146 106 132 113 153 0 31 17 22 32 76 0 0 4 6 33 0 0 0 1 1 5 18 0 0 0 0 1 0 7 0 0 0 0 0 1 0 7 0 0 0 0 0 0	107				167	152	0	0						182	128	0	0	71				125	135	0	0	
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31 17 22 32 76 0 9 4 6 33 0 0 1 1 5 18 0 0 0 1 0 7 0 0 1 0 7 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	149	Ø			126	123	0	0						113	153	0	0	3 149			80	71	111	0	0	
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	AA	MAN	MAMA	KAAAA	KARAR	AXXX	KAAAA	MAMAM	MAAA			HEARI	NG GO'		TER *		4ÄÄÄÄ.	AAAAAA	äääää	KÄÄÄÄ	KAAAAA	LAAAAA	AAAAA	MAMAM	AAAA	

0.0 0.0 0.0 0.8 -0.4 0.0 3.6 4.7 7.1 0.4 4.6 3.2 3.3 -0.9 -0.3 0.2 5.7 4.7 4.6 4.9 6.1 9.6 0.0 0.0 0.5 1.0 -0.7 0.0 0.0 10 CATEGORY NUMBER -1.2 -0.4 0.3 0.7 1.3 -0.3 0.0 0.0 6.6 4.7 4.8 6.0 7.3 9.9 0.0 0.0 0.5 -1.1 -0.5

TEST 3 TO 4 COUNT OF PEOPLE IN THIS GROUP= 743

0.0 0.0 0.0 0.0 6.1 -0.3 3.9 0.3 3.4 0.1 -0.2 -0.1 -0.1 2.9 2.7 3.5 0.0 0.0 0.0 0.0 8.6 0.6 -0.3 5.4 -0.2 -0.0 -0.0 0.0 5.0 4.6 4.4 4.5 0.0 0.0 0.0 0.1 -0.4 0.0 8.6 9.9 0.4 5.4 4.5 -0.1 0.0 -0.1 4.1 5.5

32.0 72.0 4.3 5.9 44.0 32.0 44.0 72.0 67.0 9.0 74.0 130.0 74.0 130.0 0.19 0.6 54.0 55.0 7.4 104.0 54.0 55.0 7.4 104.0 11 138.0 73.0 17.0 10.4 10 NUMBER 21.0 15.0 36.0 4.8 CATEGORY 123.0 16.6 136.0 18.3 234.0 52.0 55.0 102.0 568.0 364.0 49.0 375.0 50.5 9 123.0 136.0 18.3 31.5 16.6 136.0 18.3 234.0 123.0 102.0 52.0 7.0 55.0 49.0 375.0 568.0 364.0 123.0 16.6 234.0 136.0 18.3 EITHER PERCENT PERCENT PERCENT BETTER WORSE

TEST 1 TO 2 COUNT OF PEOPLE IN THIS GROUP= 286

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58 41 49 60 51 0 3 34 41 34 54 55 54 0 161 174 146 114 83 286 286 286 20 21 175 175 175 134 286 15 48 46 6 6 6 7 45 26 24 31 36 286 286 15 48 46 6 7 45 26 24 31 36 286 286 15 49 12 45 6 7 45 6 7 46 7 46 7 46 7 46 7 46 7 48 7 46 7 46 7 46 7 46 7 46 7 46 7 46 7 46 7 46 7 46 7 46 7 7
161 174 146 114 83 286 286 2 189 208 212 175 175 134 286 286 132 38 40 50 46 0 0 45 26 24 34 31 36 286 13 18 26 0 0 3 45 26 24 34 31 36 0 3 13 18 26 0 0 3 3 3 2 4 11 36 0 3 1 2 2 9 0 0 3 0
15 36 40 50 46 0 3 45 26 24 34 31 36 15 8 13 18 26 0 0 3 3 2 4 11 3 0 2 9 0 0 3 0 0 2 4 11 0
15 8 13 18 26 0 3 3 3 2 4 11 3 0 2 2 3 0 0 2 1 1 1 0 0 0 3 1 1 1 1 1 1 1 0 0 0 3 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0
3 0 2 2 9 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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0.0 0.0 0.0 0.0 9.9 0.6 1.0 1.2 1.8 26.0 4.8 4.9 26.0 3.4 51.0 0.3 3.9 3.3 51.0 13 -0.3 42.0 0.0 9.6 0.0 0.0 14.7 11 -0.1 0.3 0.8 1.2 1.3 1.4 0.0 55.0 10 NUMBER 9 5.0 4.8 6.0 7.0 23.0 CATEGORY 8 92.0 32.2 39.0 13.6 5.7 174.0 0.0 92.0 32.2 0.0 0.0 0.0 92.0 2.6 7.0 7.4 9.2 1.3 1.4 39.0 13.6 174.0 0.5 5.2 92.0 0.5 5.7 4.7 -0.5 WORSE PERCEN'I

21.0

21.0

33.0

33.0

23.0

23.0

35.0

8.0

45.0 15.7

22.0

126.0

45.0 15.7

45.0 15.7

22.0 7.7

126.0

45.0 15.7

BETTER PERCENT 46.0

46.0

82.0

82.0

63.0

63.0

88.0

31.0

131.0 45.8

59.0

240.0

131.0

131.0

59.0

240.0

131.0

EITHER PERCENT

TEST 2 TO 3 COUNT OF PEOPLE IN THIS GROUP= 286

0.0 0.0 0.0 0.0 7.4 0.7 5.6 0.8 15 5.4 0.2 4.8 0.2 3.0 0.0 13 3.7 -0.2 0.0 0.0 11 0.0 0.0 10 1.2 7.3 10.0 0.4 NUMBER 9.9 0.0-0.0 CATEGORY 4.8 4.9 4.3 -0.0 -0.2 0.0 0.0 0.0 0.0 7.6 10.1 0.5 1.3 0.3 7.2 5.8 0.5 4.8 0.1 5.6 9.0-

20.0 7.0 22.0 41.0 7.7 20.0 22.0 41.0 7.0 38.0 36.0 71.0 13.3 36.0 71.0 38.0 13.3 35.0 27.0 58.0 9.4 58.0 35.0 12.2 27.0 9.4 45.0 41.0 80.0 20.0 29.0 4.2 12.0 68.0 118.0 64.0 22.4 34.0 25.0 57.0 170.0 59.4 135.0 237.0 82.9 68.0 23.8 118.0 64.0 22.4 68.0 118.0 64.0 57.0 19.9 34.0 11.9 25.0 59.4 135.0 237.0 170.0 118.0 68.0 23.8 64.0 22.4 EITHER PERCENT PERCENT PERCENT BETTER WORSE

PAGE 3

COUNT OF PEOPLE IN THIS GROUP= 286 TEST 3 TO 4

MAKARAKANAKAN **** HEARING GOT WORSE ***** AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
0 1 1 3 0 3 0 3 0 4 0 0 1 2 1 1 3 0 4 0 0 1 0 0 1 0 0 1 0 0 1 0
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3 6 7 13 12 0 3 2 2 1 4 5 6 6 3 2 1 4 5 6 6 3 16 3 2 15 15 16 3 16 3 2 15 15 16 3 16 3 16 3 16 3 16 3 16 3 16 3 16 3 16 3 16 3 16 3 16 20 <th< td=""></th<>
10 16 24 28 36 0 3 16 3 16 3 16 3 16 3 16 3 16 3 25 27 28 55 50 55 50 55 0 186 176 134 114 76 286 286 2 27 223 181 169 55 0 36 38 36 42 586 286 2 2 2 2 181 169 3 6 6 6 6 6 6 6 6 7 2 2 2 2 18 2 2 2 3
44 38 69 64 57 0 3 52 27 28 55 50 55 50 55 60 186 176 134 114 76 286 286 27 223 181 169 134 286 36 38 36 42 53 0 0 3 26 24 25 181 184 286 1 12 13 21 0 0 3 26 27 23 34 37 286 1 2 10 0 3 2 2 2 2 2 18 37 37 37 37 37 37 37 37 37 37 38 37
36 37 134 114 76 286 286 28 227 223 181 169 134 134 286 36 38 36 42 53 0 3 26 24 25 23 34 37 286 4 12 13 21 0 3 26 24 25 23 34 37 29 1 2 13 21 0 3 26 2 3 26 23 34 37 20 1 2 13 2 2 2 2 3 2 3
3 36 36 42 53 0 3 26 24 25 23 34 37 0 9 6 12 10 13 21 0 0 2 2 3 2 2 15 0 1 1 2 6 0
6 12 10 13 21 0 0 3 2 2 2 3 15 15 0 0 1 3 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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0.0 0.0 1.4 1.4 1.2 0.0 0.0 7.4 0.0 33.0 14.0 7.8 33.0 14.0 5.7 51.0 22.0 7.7 4.7 3.7 3.0 1.0 0.3 51.0 22.0 17.1 20.0 5.2 4.1 5.6 6.6 7.8 10.0 0.0 0.0 1.4 0.3 0.5 1.8 1.9 1.6 0.0 0.0 49.0 20.0 57.0 19.9 23.0 10 NUMBER 26.0 9.0 CATEGORY 76.0 42.0 14.7 47.0 19.0 6.6 134.0 76.0 182.0 26.6 63.6 0.0 0.9 0.0 0.0 42.0 0.0 76.0 42.0 14.7 9.5 7.6 0.1 1.2 1.4 47.0 19.0 6.1 7.5 134.0 76.0 182.0 26.6 63.6 42.0 1.0 0.2 5.4 4.8 BETTER PERCENT PERCENT WORSE

44.0

69.0

69.0

65.0

65.0 22.7

76.0

34.0 11.9

109.0 38.1

62.0 21.7

237.0 82.9

109.0 38.1

109.0

62.0

237.0

109.0 38.1

EITHER PERCENT

TEST 1 TO 2 COUNT OF PEOPLE IN THIS GROUP= 689

0.0 0.0 0.0 0.0 7.3 1.2 5.6 1.1 0.7 5.1 3.5 0.4 3.7 0.5 4.6 0.2 0.0 0.0 0.0 0.0 6.6 1.2 7.5 1.3 6.8 1.0 5.3 0.7 4.7 0.8 0.2 6.2 0.0 0.0 0.0 0.0 9.8 1.4 1.2 7.7 0.6 7.2 5.2 0.4 5.5 9.0 0.4 6.3

74.0 116.0 16.8 16 10.7 46.0 6.7 46.0 116.0 16.8 15 74.0 10.7 177.0 25.7 17.0 14 111.0 16.1 177.0 25.7 111.0 16.1 17.0 11.2 13 147.0 98.0 57.0 14.2 8.3 12 147.0 98.0 57.0 8.3 7 202.0 90.0 10 125.0 18.1 NUMBER 76.0 33.0 44.0 6.4 CATEGORY 178.0 25.8 133.0 280.0 96.0 53.0 142.0 574.0 83.3 408.0 325.0 47.2 280.0 178.0 133.0 25.8 178.0 25.8 280.0 133.0 96.0 13.9 53.0 142.0 408.0 59.2 574.0 83.3 325.U 47.2 178.0 133.0 280.0 EITHER PERCENT WORSE PERCENT BETTER PERCENT

2

PAGE

COUNT OF PEOPLE IN THIS GROUP- 689

0.0 0.0 0.0 0.0 0.8 68.0 4.0 4.9 0.8 68.0 0.5 101.0 3.3 0.3 0.1 4.4 3.4 101.0 0.5 80.0 11.6 0.0 0.0 80.0 11 0.0 0.0 33.0 115.0 4.8 16.7 9.4 10 0.7 1.3 1.1 6.9 CATEGORY NUMBER 6.0 4.9 4.7 5.8 184.0 26.7 0.2 0.8 0.3 77.0 412.0 59.8 0.0 184.0 0.0 7.1 9.7 6.2 4.9 6.1 4.9 WORSE

45.0

45.0

9.6

9.6

52.0

52.0 7.5

74.0

18.0 2.6

117.0

50.0

316.0

113.0

113.0

166.0

166.0

131.0

131.0

186.0

51.0

280.0

126.0

582.0

COUNT OF PEOPLE IN THIS GROUP- 689

	COMBINED EAR	500 1000 2000 3000 4000 6000 8000 1KRTS	<u> </u>
	RIGHT EAR	500 1000 2000 3000 4000 6000 8000 1KRTS 500	AAAAAKAAAAAA **** HEARING GOT WORSE **** AAAAAAAAAAA
AAAAAAAAAA	LEFT EAR	DB 500 1000 2000 3000 4000 6000 8000 1KRTS	аманананананананананананананананананана

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		AAAAA	40	35	30	25	20	15	10	S	0	٦.	-10	-15	-20	-25	-30	-35	-40	AAAAA

-0.4 -0.5 -0.2 0.1 -0.0 -0.0 0.0 0.0 4.2 3.4 3.2 4.3 4.8 6.5 0.0 0.0 -0.5 -0.6 -0.5 0.3 -0.2 -0.1 0.0 0.0 5.9 5.1 4.5 5.5 7.0 8.9 0.0 0.0 -0.8 -0.7 -0.2 -0.3 0.2 -0.0 0.0 0.0 6.4 6.7 9.2 0.0 0.0 5.6 4.9 4.7

	16	34.0	4.9	49.0	7.1	81.0	11.8
	12	34.0	2. 2.	49.0	7.1	81.0	11.8
	14	65.0	4.6	72.0	10.4	132.0	19.2
	13	65.0	9.4		10.4	132.0	19.2
	12	56.0	8.1	54.0	7.8	108.0	15.7
	11	56.0	8.1	54.0	7.8	108.0	15.7
~	10		10.4	11.0	11.2	144.0	20.9
NUMBER	თ	22.0	3.2	16.0	2.3	38.0	5.5
CATEGORY	80	126.0	8.0 18.3	125.0	7.7 18.1	236.0	15.4 34.3
	7					106.0	15.4
						٠.	
	9	336.0	48.8	369.0	53.6	552.0	80.1
	S	126.0	18.3	125.0	18.1	36.0 552.0	34.3 80.1
		126.0	18.3 18.3 48.8	125.0	18.1 18.1 53.6	36.0 552.0	80.1
	S	55.0 126.0 126.0	8.0 18.3 18.3	53.0 125.0 125.0	7.7 18.1 18.1	106.0 236.0 236.0 552.0	15.4 34.3 34.3 80.1
	S	336.0 55.0 126.0 126.0	48.8 8.0 18.3 18.3	369.0 53.0 125.0 125.0	53.6 7.7 18.1 18.1	552.0 106.0 236.0 236.0 552.0	80.1 15.4 34.3 34.3 80.1
	3 4 5	336.0 55.0 126.0 126.0	8.0 18.3 18.3	369.0 53.0 125.0 125.0	7.7 18.1 18.1	552.0 106.0 236.0 236.0 552.0	15.4 34.3 34.3 80.1

TEST 1 TO 2 COUNT OF PEOPLE IN THIS GROUP= 80

0.0 0.0 7.4 5.0 10.0 14.0 6.2 0.0 -0.8 5.0 5.0 10.0 14.0 3.8 15.0 22.0 2.7 9.0 4.0 3.2 9.0 11.2 15.0 18.8 22.0 8.0 12.0 19.0 0.0 0.0 12.0 19.0 23.8 8.0 10.0 0.0 0.0 26.0 32.5 13.8 $17_{|\cdot|}$ 0 21.2 10 7.2 10.3 -1.1 -0.8 -0.6 -0.5 -0.1 -0.1 CATEGORY NUMBER 5.0 5.0 9.0 4.9 6.6 16.0 20.0 21.0 26.2 33.0 5.1 7.0 9.0 15.0 0.9 37.0 45.0 59.0 0.0 0.0 16.0 21.0 33.0 0.0 0.0 16.0 20.0 21.0 26.2 33.0 7.6 8.9 0.5 -0.6 -0.1 -1.9 7.0 9.0 15.0 5.2 37.0 45.0 59.0 5.5 5.1 4.6 16.0 21.0 26.2 33.0 -0.1 -0.5 EITHER PERCENT PERCENT PERCENT BETTER WORSE ß ×

TEST 2 TO 3 COUNT OF PEOPLE IN THIS GROUP- 80

KRTS	aaaa	0	0	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	AAAA
000	AAAAA	0	0	0	0	0	0	0	0	80	0	0	0	0	0	Ö	0	0	KAAAA
8 000	LAAAA	0	0	ч	г	4	5	15	18	24	9	2	0	0	ı	0	0	0	LAKKK
. EAR 00 60	AAAA	0	0	0	1	0	0	7	17	47	2	ю	0	0	0	0	0	0	AAAA
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COMBINED EAR 2000 3000 4000 6000 8000 1KRTS	aaaaa	0	0	0	0	7	7	er	6	99	10	0	0	0	0	0	0	0	AAAA
00 20	ахаяа	0	0	0	0	0	Ţ	7	10	55	13	0	0	0	0	0	0	0	AAAAA
500 1000	**** ААКАЗАБАКАЛЛАВАДАДАЛАЛАЛАДАДАДАДАДДАДДАДАДАД	0	0	0	0	0	0	m	11	57	89	7	0	0	0	0	0	0	алалалалалалалалананалалалалалалалалала
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TS	AAA	0	0	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	LAAA
1KR	WAAA																		
9000	***	0	0	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	* *
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: EAR	ot wo	0	Н	0	0	0	ന	10	19	27	15	m	0	٦	-	0	0	0	
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	* * *	0	0	0	0	ч	0	4	1.0	44	18	m	0	0	0	0	0	0	* * *
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IKRTS	MAAA	0	0	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	4AAA
	*\#\#\	0	0	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	aaaaa
000	4KKKK	-	2	0	7	4	12	12	16	20	9	m	2	-	0	0	0	0	aaaa
2AR 300 60	UAAAA	0	0	0	0	0	3	14	14	35	10	2	ч	0	٦	0	0	0	VAAAA
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1 000	AAAA.	0	0	0	0	0		9	10	47	14	7	-4	0	0	0	0	0	AAAAA
000 20	aaaa	0	0	0	0	0	-	m	19	38	16	m	0	0	0	0	0	0	AAAA
LEFT EAR 500 1000 2000 3000 4000 6000 8000	MANAN	0	0	0	0	0	1	S.	18	39	14	2	7	0	0	0	0	0	LAKKA
DB 5	KAKKAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	40	35	30	25	20	15	10	Ŋ	0	-5	-10	-15	-20	-25	-30	-35	-40	<u> </u>

0.0 0.0 0.0 0.0 4.3 8.7 11.0 4.0 15.0 18.8 5.0 0.8 1.1 1.6 5.0 15.0 18.8 4.6 4.1 20.0 8.0 26.0 0.4 0.1 20.0 8.0 26.0 32.5 3,3 7.0 8.8 23.0 17.0 0.6 -0.1 1.6 2.0 1.6 4.1 0.0 0.0 0.0 0.0 7.0 17.0 23.0 9.0 27.0 33.8 21.0 26.2 7.9 11.5 CATEGORY NUMBER 5.0 2.5 7.0 4.7 4.8 7.1 7.1 36.0 45.0 42.0 52.5 10.0 16.0 20.0 7.0 22.0 27.5 57.0 25.0 67.0 0.6 0.4 0.4 1.0 1.8 6.1 0.0 0.0 6.6 10.6 0.0 0.0 36.0 10.0 42.0 52.5 36.0 10.0 42.0 16.0 7.0 22.0 5.9 57.0 71.2 67.0 83.8 25.0 4.9 4.6 4.7 36.0 10.0 42.0 52.5 EITHER PERCENT WORSE PERCENT BETTER PERCENT

PAGE 3

COUNT OF PEOPLE IN THIS GROUP= 80

0.0 0.0 0.0 0.0 9.8 1.2 16 4.8 6.0 0.2 15 0.1 3,3 0.4 -0.1 0.1 3.4 3.0 0.0 0.0 0.0 11 0.0 10 8.4 13.2 1.9 NUMBER 0.4 -0.2 -0.1 1.2 4.9 7.1 CATEGORY 4.7 5.5 0.5 0.0 0.0 0.0 0.0 7.5 11.7 0.4 9.0 6.4 6.0 5.2 4.8 4.7 1.2 0.9 - 0.2

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-40

COMPARISON DATA ON TEST OF SHAW AFB SAMPLE DATA BASE 4 TESTS LAST IN 93 OR 94

COUNT OF PEOPLE IN THIS GROUP= 481

0.0 0.0 8.2 0.6 -0.7 16 5.8 0.3 4.6 3.2 -0.2 0.1 -0.2 3.0 4.3 0.0 0.0 11 0.0 0.0 10 7.1 11.0 0.8 -0.3 CATEGORY NUMBER 6.2 4.7 5.0 6.0 0.4 -0.2 -0.0 -0.1 9 0.0 0.0 0.0 0.0 8.2 11.6 0.5 -1.7 6.8 0.3 5.1 -0.2 9. 5,6

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0.0

91.0 44.0 53.0 11.0 9.1 53.0 91.0 18.9 44.0 9.1 88.0 143.0 67.0 13.9 143.0 88.0 18.3 67.0 13.9 74.0 126.0 26.2 0.09 12.5 126.0 26.2 0.09 12.5 74.0 15.4 156.0 32.4 74.0 97.0 15.4 41.0 25.0 5.2 16.0 3.3 240.0 121.0 25.2 150.0 121.0 58.0 12.1 71.0 419.0 290.0 62.4 300.0 121.0 25.2 150.0 240.0 240.0 150.0 121.0 25. 121.0 25.2 58.0 71.0 12.1 419.0 62.4 290.0 60.3 300.0 240.0 121.0 25.2 150.0 31.2 BETTER PERCENT PERCENT PERCENT EITHER WORSE

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PAGE

CONFORMISON DAILY ON 1531 OF STAN AFE SANTLLE DAILY BASE 4 15313 LAST TEST 2 TO 3 COUNT OF PEOPLE IN THIS GROUP= 481

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DATE= 941107

COUNT OF PEOPLE IN THIS GROUP= 481 тезт з то 4 дададададада

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43.0 8.9

43.0

72.0 15.0

72.0

65.0

65.0 13.5

82.0 17.0

25.0 5.2

110.0 22.9

64.0

265.0 55.1

110.0

110.0

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265.0 55.1

110.0 22.9

BETTER PERCENT

83.0 161.0 17.3 33.5

328.0

161.0

161.0 33.5

83.0 17.3

328.0 68.2

161.0 33.5

PERCENT WORSE

96.0

96.0

153.0 31.8

135.0 153.0 28.1 31.8

135.0

168.0 34.9

34.0

234.0

133.0

424.0

234.0

234.0

133.0

424.0

234.0

EITHER PERCENT

Appendix G: Shift Results for Military and Civilian Groups

<u>Page</u>	Shift Result
G-1	Test 1-2 Comparison - Military
G-2	Test 2-3 Comparison - Military
G-3	Test 3-4 Comparison - Military
G-4	Test 1-2 Comparison - Civilian
G-5	Test 2-3 Comparison - Civilian
G-6	Test 3-4 Comparison - Civilian

DATE= 941218

TEST 1 TO 2 COUNT OF PEOPLE IN THIS GROUP= 3029

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10			124	159	168	299	0	0	208	118	96	165	214	331	0	0	101	46	41	69	98	192	0	0
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	7	369.0	321.0	661.0
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EST 2 TO 3 COUNT OF PEOPLE IN THIS GROUP= 3029

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10	168	101	132	218	263	349	0	0	142	1117	102	179	284	329	0	0	, ,	69 4	40 47	96 1	6 139	235	0	0
Ŋ	909	552	580	713	635	540	0	0	602	526	513	642	661	544	0	0	ът с Д	410 349	9 360	510	0 525	5 554	0	0
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-5	658	568	471	524	533	538	0	0	598	577	483	499	512	537	0	0		446 357	7 298	3 347	7 381	482	0	0
-10	165	107	100	144	189	323	0	0	161	1117	103	115	153	293	0	0		80 4	41 38	3 44	4 74	1 221	0	0
-15	51	11	11	30	54	152	0	0	48	3 21	16	29	33	141	0	0		27	co ,	4 12	2 24	1 83	0	0
-20	10	2	0	16	24	99	0	0	15	2	4	89	18	54	0	0	n n	8		٠ ٣	4.	3 38	0	0
-25	89	9	2	4	9	23	0	0	0	0	7		2	27	0	0		1	0	2	0	3	0	0
-30	2	8	Ţ	4	80	17	0	0	2	0	1	2	5	12	0	0	m m	2	2 (0	1 (0	0	0
-35	2	ı		0	0	89	0	0	0	7	0	0	1	7	0	0		1	0	0	0	0	3 0	0
-40	2	1	2	2	ß	10	0 .	0		0	0	0	0	10	0	0		0	0	0	0 0	,	0	0
AAAA	WAAAN	TAMAN	aaaaa	AAAAA	AAAAA	LAMMA	AAAAA	у иналалалалалалалалалалалалалалалалалалал	, Sarar	**** \	* HEA	RING (3OT BI	STTER	HEARING GOT BETTER **** AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	KARARA	AAAA	KAAAA	AAAAA	LAKKAZ	KAAAA	(AAAA)	MANA	AAAAA

0.0 0.0 0.0 0.5 0.6 -0.1 4.0 4.9 7.2 3.3 -0.2 -0.0 0.1 3.3 4.3 0.0 0.0 -0.3 -0.1 0.1 0.6 1.0 -0.1 0.0 0.0 9.1 5.5 6.6 5.8 4.7 4.6 7.4 10.0 0.0 0.0 0.6 -0.2 0.0 0.0 0.7 6.2 -0.2 -0.0 0.3 6.4 4.9 5.0

277.0 502.0 237.0 277.0 502.0 761.0 25.1 383.0 411.0 761.0 383.0 411.0 618.0 322.0 325.0 10.7 618.0 322.0 325.0 10.7 832.0 439.0 443.0 14.6 CATEGORY NUMBER 139.0 85.0 2.8 219.0 717.0 685.0 22.6 597.0 1268.0 19.7 41.9 315.0 307.0 597.0 1268.0 1268.0 2518.0 19.7 41.9 41.9 83.1 717.0 1723.0 23.7 56.9 685.0 1563.0 22.6 51.6 717.0 685.0 22.6 315.0 717.0 1723.0 307.0 23.7 56.9 10.1 685.0 1563.0 22.6 51.6 1268.0 2518.0 41.9 83.1 EITHER PERCENT WORSE PERCENT BETTER PERCENT

COUNT OF PEOPLE IN THIS GROUP= 3029 TEST 3 TO 4 AAAAAAAAAAAAA

KRTS	LAAAA	0	0	0	0	0	0	0	0	3029	0	0	0	0	0	0	0	0
COMBINED EAR 500 1000 2000 3000 4000 6000 8000 1KRTS	LARAR	0	0	0	0	0	0	0	0	3029	0	0	0	0	0	0	0	0
3 6000 E	aaaaa	S	2	9	11	30	81	238	531	1389	496	170	46	11	ω	2	7	2
ED EAF	(AAAA)		0	ı	4	10	24	100	510	1862	405	84	12	7	2	0	1	н
3000 4000 6	4AAAA)	2	-	J	0	٦	18	94	384	2065	387	53	14	4	4	0	Н	0
2000	4AAAA	٦	1	0	0	٦	80	36	287	2352	298	31	10	н	2	0	0	÷
7 000 7	YAAAA	0	٦	0	0	m	8	28	301	2329	315	35	7	H	-	0	0	0
500	**** HEARING GOF WORSE **** AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1	Т	0	m	N	7	71	395	2056	401	72	11	9	8	7	0	0
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RIGHT EAR 2000 3000 4000 6000 8000 1KRTS	HAAAA	0	0	0	0	0	0	0	0	3029	0	0	0	0	0	0	0	0
8000	* * * *	0	0	0	0	0	0	0	0	3029	0	0	0	0	0	0	0	0
6000	RSE	11	7	10	22	72	123	342	558	872	536	310	93	32	18	7	n	7
RIGHT EAR 000 4000	O'I' WC	5	7	2	Q	19	57	242	610	1270	561	189	41	14	9	7	-	1
RIGH 3000	ING G	2	1	2	9	11	40	177	577	1480	551	144	18	14	m	+	0	2
2000	HEAR	1	-	1	2	9	19	117	464	1819	480	92	13	5	S	2	7	٦
500 1000	* *	7	٦	7	~	9	15	111	520	1696	557	95	13	89	2	H	1	0
500	AAAA	m	0	0	4	9	31	164	575	1466	599	139	28	7	4	8	0	1
"	(MA)	, ,, ,	1 (4) (4)			, 'm' a		, , ,				1 01 0						
1KRTS	AAAA	0	0	0	0	0	0	0	0	3029	0	0	0	0	0	. 0	0	0
8000	AAAAA	0	0	0	0	0	0	0	0	3029	0	0	0	0	0	0	0	0
0009	AAAAA	S	ω	15	26	78	137	354	564	799	530	312	117	52	14	10	4,	4
LEFT EAR 000 4000	AAAAA	11	2	7	89	24	09	238	099	1150	577	214	44	18	ഹ	ß	1	Ω
LEFT 3000	Kaaaa	n	0	m	S	20	36	190	568	1345	625	172	30	20	വ	m	2	2
2000	HAHAA	0	2	2	2	4	22	16	553	1672	539	103	19	Q	2	7	0	7
LEFT EAR 500 1000 2000 3000 4000 6000 8000	ааааааааааааааааааааааааааааааааааааааа	0	0	2	2	S	14	86	543	1675	565	96	20	4	4	0	0	1
500	AAAAA	2	0	-1	2	10	24	160	610	1332	655	181	31	12	S	2	0	2
DB	AAAA	40	35	30	25	20	15	10	2	0	-5	-10	-15	-20	-25	-30	-35	-40

0.4 0.7 0.0 0.0 4.9 6.9 0.0 0.0 -0.0 -0.0 -0.0 0.1 4.0 3.1 3.2 4.2 0.0 0.0 0.0 0.0 0.8 9.5 9.9 0.5 5.7 0.1 -0.0 0.1 0.3 5.5 4.7 4.8 0.0 0.0 0.0 0.0 -0.2 -0.1 -0.0 -0.0 0.5 0.7 5.8 4.7 4.9 6.3 7.4 9.6

5				
WANAA	16	219.0 7.2	195.0	395.0 13.0
TARARA	15	219.0 7.2	195.0	395.0
AAAAAA	14	397.0	307.0	659.0 21.8
TATATATA	13	397.0	307.0	659.0 21.8
AAAAAAA	12	337.0	248.0	558.0 18.4
AAAAAAA	11	337.0	248.0	558.0 18.4
AAAAAAA	10	436.0	333.0 11.0	713.0
TARABAR	NUMBE 9	120.0	85.0	203.0
AAAAAA	CATEGORY NUMBER 7 8 9 10 11 12 13 14 15 16	702.0	553.0 18.3	1134.0 37.4
₹				
AAAAA	7	328.0	241.0	544.0
аалалалалал	6 7	1675.0 328.0 55.3 10.8	1567.0 241.0 51.7 8.0	2459.0 544.0 81.2 18.0
АААААААААААААААА		702.0 1675.0 328.0 23.2 55.3 10.8	553.0 1567.0 241.0 18.3 51.7 8.0	1134.0 2459.0 544.0 37.4 81.2 18.0
ааааааааааааааааааааааа	ø	702.0 702.0 1675.0 328.0 23.2 23.2 55.3 10.8	553.0 553.0 1567.0 241.0 18.3 18.3 51.7 8.0	1134.0 1134.0 2459.0 544.0 37.4 37.4 81.2 18.0
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	5	328.0 702.0 702.0 1675.0 328.0 702.0 120.0 436.0 337.0 337.0 397.0 397.0 219.0 219.0 10.8 23.2 23.2 55.3 10.8 23.2 4.0 14.4 11.1 11.1 13.1 13.1 7.2 7.2	241.0 553.0 553.0 1567.0 241.0 553.0 85.0 333.0 248.0 248.0 307.0 307.0 195.0 195.0 8.0 8.0 18.3 18.3 51.7 8.0 18.3 2.8 11.0 8.2 8.2 10.1 10.1 6.4 6.4	544.0 1134.0 1134.0 2459.0 544.0 18.0 37.4 37.4 81.2 18.0
akarararararararararararararararararara	5	1675.0 328.0 702.0 702.0 1675.0 328.0 55.3 10.8 23.2 23.2 55.3 10.8	1567.0 241.0 553.0 553.0 1567.0 241.0 51.7 8.0 18.3 18.3 51.7 8.0	2459.0 544.0 1134.0 1134.0 2459.0 544.0 81.2 18.0 37.4 37.4 81.2 18.0
AAAKAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	3 4 5 6	WORSE 702.0 1675.0 328.0 702.0 702.0 1675.0 328.0 PERCENT 23.2 55.3 10.8 23.2 23.2 55.3 10.8	BETTER 553.0 1567.0 241.0 553.0 553.0 1567.0 241.0 PERCENT 18.3 51.7 8.0 18.3 18.3 51.7 8.0	SITHER 1134.0 2459.0 544.0 1134.0 1134.0 2459.0 544.0 1134.0 203.0 713.0 558.0 558.0 659.0 659.0 395.0 395.0 395.0 395.0 395.0 37.4 81.2 18.0 37.4 81.2 18.0 37.4 81.2 18.0 13.0 13.0

DATE= 941217

COUNT OF PEOPLE IN THIS GROUP= 2859 TEST 1 TO 2 AAAAAAAAAAAAA

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0 0 2 1 0 1 0 0 1 2 2 6 2 3 1 6 1 1 8 14 11 11 34 33 202 43 404 550 622 22 1951 1986 1771 1557 44 37 40 61 61 6 4 14 17 1 3 3 3 3 3 1 3 4 6 17 17 1 3 3 3 3 3 3 3 1 2 4 14 17 17 17 1 3 3 3 3 3 3 1 1 2 4 14 1 1 1 1 2 2 2
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0 110 64 69 138 202 228 7 0 2 537 432 404 550 622 612 0 2859 2 1710 1981 1771 1557 1296 2859 0 3 395 344 336 293 335 423 0 0 3 70 44 37 40 61 128 0 0 3 11 6 4 14 17 40 0 0 3 12 12 13 3 3 8 0 0 4 2 1 3 3 3 8 0 0 5 1 2 1 3 3 3 8 0 0 0 3 0 0 1 0 0 0 0 0 0 0 0 <
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0.0 0.0 0.0 0.0 0.4 0.3 0.3 1.0 1.2 1.1 9.9 5.2 3.7 3.7 4.6 4.3 6.0 5.2 5.1 6.1 7.0 9.0 0.0 0.0 0.4 0.2 0.2 1.1 1.5 1.3 0.0 0.0 0.5 0.5 1.3 1.5 1.1 0.0 0.0 9.4 0.0 0.0 5.2 5.6 6.4 7.3 0.7

180.0 423.0 14.8 425.0 256.0 256.0 14.9 9.0 9.0 423.0 15 272.0 668.0 272.0 348.0 425.0 12.2 14.9 668.0 202.0 528.0 18.5 12 323.0 799.0 194.0 493.0 348.0 11.3 27.9 6.8 17.2 12.2 202.0 528.0 295.0 10.3 749.0 10 CATEGORY NUMBER 82.0 2.9 273.0 190.0 492.0 6.6 17.2 496.0 1182.0 17.3 41.3 492.0 1302.0 17.2 45.5 799.0 1827.0 323.0 799.0 799.0 1827.0 27.9 63.9 496.0 1182.0 1182.0 2430.0 17.3 41.3 41.3 85.0 ß 492.0 492.0 1302.0 190.0 17.2 45.5 6.6 1182.0 2430.0 41.3 85.0 EITHER PERCENT BETTER PERCENT WORSE PERCENT

COUNT OF PEOPLE IN THIS GROUP= 2859 TEST 2 TO 3 AAAAAAAAAAAAA

DB	200	1000	2000	LEFT EAR 500 1000 2000 3000 4000 6000 8000	EAR 1000	0009		1KRTS		500 1000	000	2000 3	RIGHT EAR 3000 4000 6000 8000 1KRTS	EAR 300 6	000)00 1K	RTS	500	500 1000	2000	3000	COMBINED EAR 2000 3000 4000 6000 8000 1KRTS	ъ. 6000	8000	1KRT5
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40	ന	2	m	9	4	12	0	0		4	m	æ	4	S	12	0	0	0	0	1	2	2	5	0	0
35	3	2	0	2	Ŋ	5	0	0		1	٦	-	0	0	ю	0	0	0	1	1	+	2	4	0	0
30	0	É	2	٦	ა	7	0	0		2	2	1	1	8	7	0	0	en	S	Э	2	2	7	0	0
25	7	٦	Э	S	16	24	0	0		4	ო	11	6	7	26	0	0	1	0	0	4	5	89	0	0
20	σ	6	7	15	30	52	0	0		7	10	2	17	33	68	0	0	9	2	3	9	14	27	0	0
15	36	14	22	43	87	135	0	0		32	18	36	09	71	151	0	0	20	10	11	26	32	59	0	0
10	215	138	144	222	349	318	0	0		196	135	196	220	302	375	0	0	67	58	71	104	161	246	0	0
2	619	178	661	705	701	539	0	0		735	169	674	, 664	721	575	0	0	565	498	451	528	199	572	0	0
0	1127	1304	1374	1139	963	731	2859 2	2859		1131 1	1360 1	1318 1	1215	988	730 26	2859 28	2859	1704	1942	1997	1767	1556	1228	2859	2859
ιΩ I	549	503	501	544	461	543	0	0		568	509	489	467	483	479	0	0	406	295	267	346	327	475	0	0
-10	191	81	101	130	164	299	0	0	• • •	136	88	66	153	171	270	0	0	74	39	46	58	09	178	0	0
-15	32	14	21	24	42	119	0	0	• • •	31	22	20	35	39	106	0	0	89	S	m	7	19	32	0	0
-20	7	2	4	14	17	43	0	0		9	7	4	7	19	31	0	0	2	1	Т	4	7	12	0	0
-25	4	ю	e	5	4	19	0	0		Н	2	2	4	9	0	0	0	0	E	9	n	2		0	0
-30	2	2	Э	2	7	so.	0	0		2	1	0	8	m	0	0	0	e	0	7	0	3	П	0	0
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-40	0	0	E)	-	7	7	0	0		m	1	0	0	1	S	0	0	0	0	0	0	0	4	0	0
AAA?	KAAAA	AAAAA	KAAAA	KAAAK	haaaa	AAAAA	AAAA	KAAAA	ÅÅÄ	ааааааааааааааааааааааааааааааааааааа	* *	HEARI	**** HEARING GOT		BETTER **	**** AHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	iaaaaá	дадад	AAAAA	aaaaa	AAAAA	AXXXX	AAAAA	AAAAA	aaaa

0.0 0.0 0.7 0.0 0.0 6.9 0.7 1.1 5.2 3.8 4.6 0.4 0.5 0.5 3.8 13 4.3 12 0.0 0.6 0.9 0.9 1.2 1.3 0.0 0.0 11 6.0 5.3 5.5 6.3 7.2 9.4 0.0 10 CATEGORY NUMBER 9.0 0.0 9.5 0.0 0.0 0.4 0.0 7.5 0.8 1.5 6.3 5.5 0.4 5.5 0.8 0.4 6.1

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TEST 3 TO 4 COUNT OF PEOPLE IN THIS GROUP= 2859 AAAAAAAAAAAAAAA

0.0 0.0 0.0 0.0 7.0 -0.6 -0.7 -0.3 -0.2 -0.2 -0.6 5.0 4.4 3.7 3.6 4.2 0.0 0.0 0.0 0.0 -0.9 -1.1 -0.6 -0.3 -0.2 -1.0 6.4 7.4 10.0 5.6 5,3 5,9 0.0 0.0 0.0 0.0 9.3 -0.8 -1.0 -0.4 -0.3 -0.4 -0.4 7.0 6.2 5.2 5.0 S

7.3 16 14.1 208.0 215.0 402.0 402.0 15 14.1 208.0 215.0 353.0 12.3 375.0 13.1 23.6 14 674.0 674.0 353.0 12.3 13 375.0 13.1 297.0 559.0 19.6 10.4 12 10.4 298.0 559.0 19.6 297.0 298.0 10.4 11 10.4 739.0 14.3 13.7 70 392.0 409.0 CATEGORY NUMBER 105.0 3.5 201.0 614.0 690.0 545.0 1176.0 19.1 41.1 289.0 292.0 10.2 1807.0 63.2 614.0 1447.0 21.5 50.6 545.0 1176.0 1177.0 2449.0 19.1 41.1 41.2 85.7 691.0 21.5 0.069 614.0 24.1 289.0 10.1 292.0 10.2 1807.0 614.0 1447.0 21.5 50.6 1177.0 2449.0 41.2 85.7 691.0 EITHER PERCENT PERCENT PERCENT BETTER WORSE

Appendix H: Shift Results for Male and Female Groups

Page	Shift Result
H-1	Test 1-2 Comparison - Male
H-2	Test 2-3 Comparison - Male
H-3	Test 3-4 Comparison - Male
H-4	Test 1-2 Comparison - Female
H-5	Test 2-3 Comparison - Female
H-6	Test 3-4 Comparison - Female

PAGE

COUNT OF PEOPLE IN THIS GROUP- 6207 TEST 1 TO 2 AAMAMAMAMAMA

AAAA	aanaaaaaaaa	KAAAA			í							(:						•		1			
DB	500 1	0001	2000	3000	LEET EAR 1000 4000	500 1000 2000 3000 4000 6000 8000	8000 1	KRTS	200	500 1000	2000	K1GH7	000 4000 6	MIGHT EAR 3000 4000 6000 8000 1KRTS	300 1К	RTS	500	500 1000	2000	3000 S	3000 4000 6	5000 8	COMBINED EAR 2000 3000 4000 6000 8000 1KRTS	KRTS
AAAA	LAAAA	KAAAA	AAAAA	ANAAA	AAAAA	AAAAA	AAAAA	ааааааааааааааааааааааааааааааааааааа	ANAAAA	* *	HEARING	DS BNI	GOT WORSE	* * * * 3S:		аааа	<i>аааааааааааааааааааааа</i> аа <i>а</i> аааааааааа	MAAAA	aaaaa	AAAAA	4AAAA	aaaaa	KAAAA	AAAA
40	5	m	ω	14	14	26	0	0	e	7	0	4,	7	21	0	0	0	0	0	4	4	89	0	0
35	2	-	2	4	2	10	0	0	2	0	2	4	5	Θ	0	0	1	~	2	2	7	9	0	0
30	7	2	2	9	14	36	0	0	9	m	m	S	80	34	0	0	0	m	2	4	10	10	0	0
. 25	12	9	7	17	25	10	0	0	00	വ	7	13	23	99	0	0	6	7	4	4	12	35	0	0
20	25	18	16	52	65	126	0	0	28	16	15	40	69	141	0	0	10	4	9	18	28	75	0	0
15	90	42	55	110	201	340	0	0	90	35	62	109	157	302	0	0	40	19	20	62	63	161	0	0
10	438	276	291	514	658	706	0	0	392	279	308	455	620	710	0	0	195	111	122	241	367	501	0	0
5	1379 1	1298	1193	1471	1349	1173	Ö	0	1292	1302	1151	1391	1369 1	1144	0	0	1021	820	113	1117	1219 1	1157	0	0
0	2549	3110	3251	2569	2278	1558	6207	6207	2671	3096	3261	2737 2	2403 1	1656 6	6207 62	6207	3827	4424	4509	3919	3518	2668	6207 6	6207
-5]	1202 1	1169	1085	1068	1048	1091	0	0	1188	1169	1126	1075]	1047 1	1092	0	0	875	869	672	687	762	1005	0	0
-10	348	204	228	269	368	588	0	0	410	239	222	295	364	615	0	0	180	99	81	115	168	361	0	0
-15	108	28	42	64	117	246	0	0	19	49	39	57	101	231	0	0	32	17	o,	26	37	144	0	0
-20	25	11	19	28	36	138	0	0	24	ω	10	16	23	116	0	0	12	m	4	5	7	20	0	0
-25	14	m	9	13	12	41	0	0	10	æ	5	4	6	37	0	0	Э	0	e	2	89	15	0	0
-30	e	2	0	4	89	26	0	0	2	2	1	7	6	23	0	0	0	0	0	1	7	9	0	0
-35	0	0	0	e	S	14	0	0	0	0	٦	0	0	4	0	0	1	0	0	0	٦	4	0	0
-40	2	٦	2	Ή.	4	18	0	0	7	0	0	1	Э	7	0	0	1	0	0	0	0	1	0	0
AAAAA	LANAN	LAKKA	KAAAA	aaaaa	AAAAA	AAAAA	KAAAA	<i>на</i> нананананананананананананананананана	AAAAAA	*		HEARING GOT		TER *	*** A.A	AAAAA	ВЕТТЕR **** АНАИНААНИИМАИЛИМАНИМАНИМИМИМИМИМИМИМИМИМИМИМИМИМИМИМИМ	MAAAA	AAAAA	aaaaa	LARAR	አጸጸጸ	AAAAA	KAAA

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588.0 585.0 1800.0 1345.0 1345.0 1642.0 1642.0 1042.0 1042.0 9.4 29.0 21.7 21.7 26.5 26.5 16.8 16.8 960.0 588.0 15.5 9.5 775.0 807.0 960.0 13.0 15.5 775.0 598.0 9.6 598.0 1683.0 3792.0 768.0 1683.0 1683.0 3792.0 768.0 1683.0 375.0 1077.0 807.0 27.1 61.1 12.4 27.1 61.1 12.4 27.1 6.0 17.4 13.0 214.0 838.0 3.4 13.5 2710.0 5282.0 1278.0 2710.0 2710.0 5282.0 1278.0 2710.0 43.7 85.1 20.6 43.7 43.7 564.0 1295.0 9.1 20.9 564.0 1295.0 1295.0 3104.0 9.1 20.9 20.9 50.0 1295.0 3104.0 20.9 50.0 PERCENT PERCENT EITHER BETTER

2

TEST 2 TO 3 COUNT OF PEOPLE IN THIS GROUP- 6207 AAAAAAAAAAAAAA

INKIS	TAAAA	0	0	0	0	0	0	0	0	6207	0	0	0	0	0	0	0	0
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4000	AAAAA	4	2	9	11	24	71	328	1233	3570	749	146	44	10	9	m	0	0
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2000	aaaaa	2	J	4	0	89	17	1117	843	4512	598	86	σ	4,	S	4	0	0
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7000	aaaaa	ω	σ	15	26	59	174	645	1376	2282	1052	378	106	39	13	15	Э	7
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	4AAAA	m	0	2	4	16	52	283	1303	3240	1009	225	36	15	4	9	2	4
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BETTER 1339.0 3215.0 PERCENT 21.6 51.8

2634.0 5270.0 1201.0 2633.0 2634.0 5270.0 1201.0 2633.0 42.4 84.9 19.3 42.4 84.9 19.3 42.4

EITHER PERCENT

962.0 15.5

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TEST 3 TO 4 COUNT OF PEOPLE IN THIS GROUP= 6207 AKKAKAKAKAKAKAK

DB 500 1000 2000 3000 4000 6000 8000 1 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	8000 1KRTS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	500 1000 2000 AAAA **** HEAI 3 3 3 3		NG GOT WO	2000 3000 4000 600C HEARING GOT WORSE	3000 4000 6000 8000 1KRTS ING GOT WORSE **** AKAKAKA	000 1 ** AÅ	KRTS	1KRTS 500 1000 2000 3000 4000 6000 8000 1KRTS AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1000	500 1000 2000 3000 4000 6000 8888888888888888888888888888888	3000 4000 6 K K K K K K K K K K K K K K K K K	4000	0009	8000 1KRTS AAAAAAAA	KRTS
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3 1 3 6 14 19 1 0 2 1 3 9 8 5 4 5 12 26 3 2 6 12 17 54 19 12 9 29 42 147 51 28 50 72 132 258 311 189 205 366 501 678 1165 1011 1114 1214 1239 1112 2681 3216 3297 2632 2304 1633 1444 1431 1214 1373 1123	0 0 0 0 0 0 0		E G 4 L	ю	e	r						THAMAN	1	AAAAA	AAAAA	AAAAA		AAAA
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	0		1411 1	388 1	1150 1	1232 1	1231	1120	0	0	994	869	724	926	943	1123	0	0
-10 409 248 235 397 485 693	0		344	246	252	367	450	919	0	0	149	91	70	149	198	398	0	0
-15 73 40 40 65 105 265	0		46	41	43	99	107	269	0	0	3 26	21	29	31	48	122	0	0
-20 25 15 19 33 44 120	0		19	20	14	30	43	06	0	0	13	4	9	6	16	30	0	0
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477.0 435.0 862.0 13.9 477.0 862.0 13.9 435.0 833.0 13.4 724.0 424.0 1568.0 1218.0 1218.0 1436.0 1436.0 6.8 25.3 19.6 19.6 23.1 23.1 14 833.0 13.4 724.0 707.0 591.0 9.5 11.4 12 591.0 9.5 707.0 11.4 919.0 791.0 12.7 10 CATEGORY NUMBER 235.0 3.8 197.0 3.2 688.0 1457.0 1457.0 3407.0 688.0 1457.0 11.1 23.5 23.5 54.9 11.1 23.5 579.0 1325.0 9.3 21.3 2498.0 5209.0 1189.0 2497.0 2498.0 5209.0 1189.0 2497.0 40.2 83.9 19.2 40.2 83.9 19.2 40.2 579.0 1325.0 1326.0 3539.0 9.3 21.3 21.4 57.0 2 1457.0 3407.0 23.5 54.9 1326.0 3539.0 21.4 57.0 BETTER PERCENT PERCENT PERCENT WORSE

	COMBINED EAR 500 1000 2000 3000 4000 6000 8000 1KRTS	HEARING GOT WORSE **** AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 1 0 1 1 0 0	0 0 0 0 0 0 0	0 0 0 1 1 0 0	0 0 2 2 3 0 0	2 7 8 15 20 0 0	46 29 42 59 81 0 0	254 268 245 222 157 365 365	56 53 56 55 68 0 0	4 5 9 9 24 0 0	1 0 2 0 7 0 0	1 2 0 1 3 0 0	1 0 1 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	######################################
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PLE IN	8 0009	AAAAA	0	0	0	1	9	6	40	74	94	18	38	14	9	en	٦	0	н	
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TEST 1 TO 2	500 10	LARKAR	0	0	0	0	2	4	56	99	152	84	24	2	1	-	0	0	0	
TEST	DB	AAAA	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	

0.0 -0.3 -0.4 -0.3 -0.3 0.4 -0.1 0.0 0.0 5.9 20.0 5.5 1.5 20.0 3.9 32.0 14 32.0 8.8 13 25.0 12 0.0 0.0 0.0 25.0 11 0.0 37.0 0.3 10 CATEGORY NUMBER -0.3 -0.6 -0.6 -0.3 0.2 13.0 3.6 6.1 65.0 17.8 4.7 5.5 22.0 6.9 190.0 0.0 0.5 -0.5 0.0 0.0 65.0 17.8 0.0 65.0 8.5 6.3 22.0 5.5 -0.2 -0.4 -0.3 -0.2 190.0 65.0 17.8 PERCENT

32.0 8.8

32.0

41.0

31.0

31.0

43.0

13.0

66.0 18.1

29.0

188.0

66.0

66.0 18.1

29.0

188.0 51.5

66.0

BETTER PERCENT

50.0

50.0

71.0

71.0

55.0 15.1

55.0 15.1

78.0

26.0

124.0 34.0

50.0

297.0

124.0 34.0

124.0 34.0

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EITHER PERCENT

COUNT OF PEOPLE IN THIS GROUP= 365 TEST 2 TO 3

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35	н	0	0	0	0	2	0	0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
30	0	7	0	0	0	7	0	0		0	0	0	0	0	2	0	0	0	0	н	0	0	0	0	0
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5	80	11	16	84	80	71	0	0		91	72	68	78	06	71	0	0	63	39	38	55	75	10	0	0
0	134	194	206	184	166	16	365	365	, ,	153	209	203	178	168	92	365	365 3	219	277	280	258	226	165	365	365
-5	71	56	94	09	46	73	0	0		63	52	26	61	53	19	0	0	55	33	27	33	41	69	0	0
-10	32	16	11	12	27	48	0	0		20	13	10	10	16	47	0	0	10	9	7	4	9	27	0	0
-15	9	m	0	2	-	11	0	0		ß	2	m	-	4	15	0	0	2	0	+	2	eή	т	0	0
-20	7	0	1	0	2	7	0	0		2	0	8	Т	m	9	0	0	0	0	₽	0	m	~	0	0
-25	0	0	1	0	0	0	0	0		0	-	0	2	0	0	0	0	0	0	0	0	0	-	0	0
-30	0	0	0	0	0	0	0	0		-	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0
-35	0	0	0	0	0	0	0	0		0	0	0	0	1	Н	0	0	0	0	0	0	0	0	0	0
-40	0	0	1	0	2	0	0	0		0	0	0	1	0	1	0	0	0	0	0	O	0	0	0	0
AAAA	AAAAA	AAAA	1AAAA?	(AAAA)	AAAA	KAAAA	AAAAA	AMMA	WAA	AAAAA	* * *	HEAR	ING GO	T BET	TER *	* * * * A	AAAAA	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	MAMA	AAAAA	aaaaa	LAKKK	AAAA	AAAA	AAAA

0.0 0.0 29.0 15 0.5 14 0.2 41.0 13 33.0 0.0 0.0 33.0 11 0.0 0.0 45.0 0.1 9.5 10 CATEGORY NUMBER 9.0 5.9 15.0 5.9 0.5 69.0 0.4 0.3 29.0 0.4 203.0 55.6 0.0 0.0 69.0 S 0.0 69.0 0.2 0.7 29.0 0.7 203.0 55.6 0.5 69.0 18.9 WORSE PERCENT

23.0

23.0

11.5

11.5

30.0

30.0

43.0 11.8

13.0 3.6

29.0

185.0

65.0

65.0

185.0 50.7

65.0 17.8

BETTER PERCENT

50.0

50.0

78.0

78.0

60.0

60.0

82.0

27.0 7.4

126.0 34.5

55.0 15.1

305.0 83.6

126.0 34.5

126.0 34.5

55.0 15.1

305.0

126.0 34.5

EITHER

DATE= 941222

COUNT OF PEOPLE IN THIS GROUP= 365 TEST 3 TO 4
AAAAAAAAAAA

00	500 1000 2000 3000 4000 6000 8000	000	LEFT EAR 3000 4000	EAR 000 6	8 000		1KRTS	വ	500 1000 2000	00 20	c	RIGHT EAR 3000 4000	EAR 300 60	000	8 6000 8000 1KRTS	RTS	500	1000	2000	3000 3000	COMBINED EAR 500 1000 2000 3000 4000 6000 8000 1KRTS	4R 6000	8000	1KRTS
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BETTER PERCENT		208.	69.0 208.0 28.0 18.9 57.0 7.7	0	69.0	69.0	208.0	28.0	69.0	13.0	43.0	30.0	69.0 208.0 28.0 69.0 13.0 43.0 30.0 30.0 40.0 40.0 25.0 25.0 18.9 57.0 7.7 18.9 3.6 11.8 8.2 8.2 11.0 11.0 6.8 6.8	11.0	40.0	25.0	25.0		

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124.0 302.0 34.0 82.7

EITHER PERCENT

Appendix I: Shift Results for Ethnic Groups

Page	Shift Result
I-1	Test 1-2 Comparison - Whites
I-2	Test 2-3 Comparison - Whites
I-3	Test 3-4 Comparison - Whites
I-4	Test 1-2 Comparison - Hispanics
I-5	Test 2-3 Comparison - Hispanics
I-6	Test 3-4 Comparison - Hispanics
I-7	Test 1-2 Comparison - Blacks
I-8	Test 2-3 Comparison - Blacks
I-9	Test 3-4 Comparison - Blacks

DATE= 941217

TEST 1 TO 2 COUNT OF PEOPLE IN THIS GROUP= 3252

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DATE= 941217

2

TEST 2 TO 3 COUNT OF PEOPLE IN THIS GROUP= 3252

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PAGE

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RIGHT EAR	500 1000 2000 3000 4000 6000 8000 1KRTS	1AAAA **** HEARING GOT WORSE **** AAAAAAAA
LEFT EAR	B 500 1000 2000 3000 4000 6000 8000 1KRTS	адалалаладададададаларададададададададад

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PAGE 1

COUNT OF PEOPLE IN THIS GROUP= 2038 TEST 1 TO 2 AAAAAAAAAAAAA

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13	287.0	193.0	466.0
12	11.2	142.0	359.0 17.6
11	229.0	142.0	359.0 17.6
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TEST 2 TO 3 COUNT OF PEOPLE IN THIS GROUP= 2038
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162.0 119.0 5.8 270.0 270.0 162.0 119.0 5.8 15 460.0 290.0 196.0 9.6 460.0 290.0 196.0 9.6 358.0 17.6 230.0 143.0 358.0 17.6 143.0 230.0 514.0 326.0 16.0 224.0 11.0 10 CATEGORY NUMBER 163.0 8.0 101.0 65.0 539.0 829.0 371.0 138.0 343.0 217.0 539.0 540.0 1310.0 26.4 26.5 64.3 371.0 1005.0 18.2 49.3 830.0 1756.0 40.7 86.2 ა 371.0 829.0 40.7 540.0 1310.0 217.0 26.5 64.3 10.6 138.0 343.0 371.0 1005.0 18.2 49.3 40.7 86.2 BETTER PERCENT EITHER PERCENT WORSE PERCENT

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TEST 3 TO 4 COUNT OF PEOPLE IN THIS GROUP= 2038 AAAAAAAAAAAAAA

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NAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAM	1 KRTS	AAAAA	0	0	0	0	0	0	0	0	2038	0	0	0	0	0	0	0	0	HAXXX
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127.0 144.0 259.0 144.0 259.0 12.7 216.0 265.0 13.0 447.0 14 216.0 265.0 447.0 362.0 17.8 209.0 173.0 173.0 8.5 8.5 362.0 209.0 244.0 287.0 491.0 CATEGORY NUMBER 63.0 3.3 128.0 401.0 485.0 23.8 39.6 401.0 1008.0 168.0 19.7 49.5 8.2 203.0 808.0 1733.0 352.0 39.6 85.0 17.3 486.0 1287.0 23.8 63.2 401.0 39.6 485.0 352.0 168.0 203.0 401.0 1008.0 19.7 49.5 808.0 1733.0 39.6 85.0 486.0 1287.0 23.8 63.2 WORSE PERCENT BETTER PERCENT EITHER PERCENT

DATE= 941216

TEST 1 TO 2 COUNT OF PEOPLE IN THIS GROUP= 506
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	KRTS	KAXAA	0	0	0	0	0	0	0	0	909	0	0	0	0	0	0	0	0	KAAAA
	0008	VAAAA	0	0	0	0	0	0	0	0	909	0	0	0	0	0	0	0	0	SAAA A
	9 000	AAAA	2	0	0	0	e	10	37	111	195	97	34	11	-	ক	0	-	0	LAHAKI
D EAR	9 000	AAAAA	н	0	2	0	m	က	22	98	300	61	14	1	0	Н	0	0	0	AAAA
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8	000	aaaaa	0	7	2	0	0	1	8	49	370	63	11	0	-	0	0	0	0	MARAR
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	8000	LAAAA	0	0	0	0	0	0	0	0	909	0	0	0	0	0	0	0	0	4AAA?
	0009	AAAA	Т		9	2	12	19	99	77	138	98	63	21	7	4	2	2	2	MAMA
EAR	4000	AAAAA		0	0	0	5	15	44	104	205	96	21	7	5	0	1	0	0	AAAA
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	000	LANAN	en	0	0	0	-	4	10	81	280	102	12	σ	е	7	0	0	0	VAXXX
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	16	36.0	40.0	71.0	
	15	36.0	40.0	71.0	
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	9	278.0 58.0 54.9 11.5	265.0 45.0 52.4 8.9	414.0 98. 81.8 19.	
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	S	278.0 58.0 110.0 110.0 278.0 54.9 11.5 21.7 21.7 54.9	265.0 45.0 109.0 109.0 265.0 52.4 8.9 21.5 21.5 52.4	414.0 98.0 203.0 203.0 414.0 81.8 19.4 40.1 40.1 81.8	
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COUNT OF PEOPLE IN THIS GROUP= 506 TEST 2 TO 3 AAAAAAAAAAA

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000	AAAA	0	H	0	0	2	10	34	106	229	19	34	9	9	0	7	н	0	* * * *
D EAR	aaaaa	0	0	0	2	2	2	26	93	297	19	11	2	m	7	0	0	0	* # * # *
COMBINED EAR 2000 3000 4000 6000	LAAAA	0	0	0	0	٦	m	14	84	339	28	ა	1	0	0	7	0	0	* * * *
CO)	LAAAAJ	0	0	0	0	7	Н	11	74	362	48	7	0	1	ı	0	0	0	* * * * *
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RIGHT EAR 3000 4000 6000 8000 1KRTS		0	0	0	0	0	0	0	0	909	0	0	0	0	0	0	0	0	
9 000	* *	H	0	0	9	10	22	90	86	140	88	57	25	4	7	Н	7	0	
EAR 300 61	I WOR	Н	0	0	0	S	18	45	114	197	92	24	9	2	0	2	0	0	1
RIGHT EAR	16 601	0	0	0	2	ч	6	41	104	229	86	11	4	-	0	0	0	0	
F 2000 30	~	0	0	0	-	-	2	30	109	254	90	14	2	0	0	0	0	0	
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11 000	SANA	0	0	0	0	0	0	0	0	506	0	0	0	0	0	0	0	0	
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AR 000 60	WAAAA	1	0	0	m	0	12	45	106	200	91	29	13	m	1	0	0	7	
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7 00 30	KAWAW	0	0	0	0	1	ĸ	22	115 1	265 2	98	7	2	0	0	0	0	2	
אאא סר סר	SAMAN	0	0	0	0	0	5	16	93 1	273 2	105	11	0	-	7	0	0	1	
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78.0 15.4

23.0

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292.0 57.7

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50.0

292.0 57.7

121.0

PERCENT BETTER

WORSE

34.0

34.0

52.0 10.3

52.0 10.3

35.0

35.0 6.9

56.0

15.0

108.0 21.3

31.0

250.0

108.0

108.0

31.0

250.0

108.0

PERCENT

73.0

73.0

114.0

114.0

86.0 17.0

86.0

126.0 24.9

36.0

207.0

78.0

409.0 80.8

207.0

207.0

78.0

409.0

207.0

EITHER PERCENT

TEST 3 TO 4 COUNT OF PEOPLE IN THIS GROUP= 506 AAAAAAAAAAAA

DB 500 1000 2000 3000 4000 6000 8000 1 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	LEFF EAN 500 1000 2000 3000 4000 6000 8000 1 АААААААААААААААААААААААА	000	1000 4000	000 e	3 0000	1 000	6	3	500 1000	00 20	2000 30	000 4000	000	3000 4000 6000 8000 1KRTS	11 000	(RTS	507	100	500 1000 2000	3000	3000 4000 6	6000	3000 4000 6000 8000 1KRTS	1 KRTS
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		aaaaa	AAAAA	aaaa	UKAKAK	ኄጸጸጸጸ	AAAAAAAAAA	ል አአአ		****	EARI	4G GO!	F WOR	HEARING GOT WORSE ****	AAN	WAAAA	SAAAA	TARAR	aaaaa	<i>нанакадалаланананакаланар</i> ан <i>канакананана</i>	AAAAA	aaaaa	KAAAA	AAAAA
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5 82	83	11	105	93	80	0	0	• •	95	72	85	66	98	83	0	0	3 44		39 43	3 56	3 72	68	0	0
0 224	273	287	221	197	133	909	506		228 2	266	275	234	193	159	909	506	330		376 397	7 353	311	231	506	909
-5 119	105	108	109	104	103	0	0	• • •	106 1	120	102	96	115	88	0	0	6	93 6	69 51	1 68	83	111	0	0
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-40 1	0	0	0	1	0	0	0		0	0	Н	0	0	2	0	0		0	0	0	0 0	,	0	0
aaaaaaaaaaaaaaaaa	aaaaa	AXXX	LAKKAK	ሊዳዳዲ	aaaaa	AAAAA	аааааааааа	LAMA		* *	HEARI	HEARING GOT	T BET	TER *	X ***	aaaa	AAAAA	aaaa	iaaaaa	BETTER **** АИМАМАДАЛЛАЛАННИЧАДАЛАЛАЛАННИЧАЛАДАЛАЛАДАД	LARARA	MAMAM	aaaaa	AAAAA

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-0.5 -0.2 -0.1 -0.1 -0.3 0.1 0.0 0.0 4.7 3.6 4.1 4.3 4.9 6.9 0.0 0.0 -0.5 -0.6 -0.3 -0.0 -0.2 0.4 0.0 0.0 6.4 5.1 5.4 6.1 6.9 10.0 0.0 0.0 6.1 5.0 5.1 6.0 7.1 9.5 0.0 0.0 -1.0 -0.2 -0.2 -0.3 -0.2 -0.4 0.0 0.0

16	37.0 7.3	38.0	72.0
15	37.0	38.0	72.0
14	13.0	55.0 10.9	112.0
13	66.0	55.0 10.9	112.0
12	55.0	42.0	92.0 18.2
11	55.0 10.9	42.0 8.3	92.0 18.2
10	71.0	62.0	123.0 24.3
NUMBER 9	3.4	17.0	34.0
CATEGORY 8	55.0 107.0 10.9 21.1	111.0	198.0 39.1
7	55.0	40.0	90.0
9	251.0 49.6	299.0 59.1	416.0
ß	107.0	111.0	198.0 39.1
4	107.0	111.0	198.0 39.1
m		40.0	
2	251.0 49.6	299.0 59.1	416.0
н	107.0	111.0	198.0
	WORSE	BETTER PERCENT	EITHER PERCENT